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**Established in  
ENGLAND, 1859**

Registered as a Newspaper.  
Published Weekly at 42 CANNON STREET,  
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TELEGRAPHIC ADDRESS:  
"CHEMICUS, CANNON, LONDON."  
[Charged as two words only.]  
**Established in  
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DECEMBER 28, 1918.

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"Will be digested by many who cannot  
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The Successful Fat-Food Nutrient.

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Prices are protected at  
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MALT & COD LIVER OIL  
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BRAND

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most heartily thank all their friends for kind forbearance during the past few months. The influenza epidemic caused an unusual delay in filling orders, but they are glad to say this has been overcome.



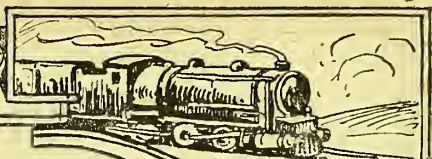
They look forward to the New Year with confidence, and offer to each and all their sincere

Good Wishes  
for a  
Prosperous New Year.

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SOUTHWARK, S.E.1.



BRIDGE BRAND.

# PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*R. W. GREEFF & CO. offer at lowest prices the following  
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(WHOLESALE QUANTITIES ONLY)

Acetanilid	Glycerophosphates	Phenolphthalein
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Cinchonine and Salts	Methylene Blue Medicinal	Tannic Acid
Cinchonidine and Salts	Methyl Salicylate	Tannin Albuminate
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Telegraphic Address:  
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A B C Code, 5th Ed.On the List of Government Contractors,  
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# SYNTHETIC OTTOS

"ZINYL" Brand (Regd.)

## TRUE SYNTHETIC PRODUCTS

THESE Ottos are intensely strong and are quite different from the usual Concentrated Perfumes, generally made to a uniform concentration of, say, 40 or 50 times.

1. The Synthetic Otto of Neroli, "Zinyl" Brand, for instance, used in the proportion of  $\frac{3}{4}$  oz. to the gallon of spirit is equal to a concentration of 220 times, this gives an excellent basis for Eau de Cologne, and we suggest a reference to "Pharmaceutical Formulas" for many admirable forms.

2. Yet the present price of this Otto is only 8/6 oz., against to-day's value of fine Oil of Neroli about 32/- oz., and 5 drachms of the Synthetic Otto are equal to one ounce of the natural oil!

3. The "Zinyl" Brand of Synthetic Ottos is wonderfully true to the natural perfume, the Parma Violet was described by the "C. & D." as "distinctly the real thing," and it is the closest imitation of the flower we have met with. Only recently on asking a Colonial visitor if he could recognise a drop put on blotting paper, the reply came at once, "Why, Violets of course!"

## H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,  
122 GREAT SUFFOLK STREET, LONDON, S.E. 1.



**READY  
SELLER**

**GOOD  
PROFIT**

# "ZOTAL" LINIMENT

**THE  
HOUSEHOLD  
REMEDY.**

RELIEVES  
Rheumatic Lumbago,  
Sciatica,  
Muscular Pains,  
Stiffness of the Joints,  
Neuralgia,  
Colds, Sore Throats,  
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HOUSEHOLD  
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supplied**

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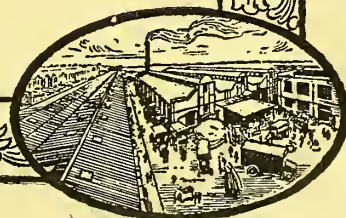
*Full directions for use  
enclosed.*

**Price 1/3 per bottle.**

SOLE PROPRIETORS:  
**BURGOYNE,  
BURBIDGES & Co. Ltd.  
East Ham, London, E.**

**PRICE 10/6 DOZ.**

Telegrams: "Zotalene, Phone, LONDON."  
Telephone: EAST HAM 686 (four lines).





## THE NEW FORMULA

# DAISY

### A Proprietary with an Established Sale and a HIGH PROFIT.

There has long been a big field for a high-class headache remedy, and the NEW FORMULA DAISY has been specially designed to fill it. THE NEW FORMULA DAISY is a remedy that the highest-class chemist can sell with pride and confidence at a profit of 100 %.

Except the name, there is nothing of the old Daisy about this new product. The formula has been brought right up to date. It is entirely free from acetanilid—The NEW FORMULA DAISY is as safe as milk; and, after thorough analysis and test, it has received the strongest professional endorsement (see the London Specialist's letter below).

We have been making headache cures for the past 25 years, so we think we may claim to know a little about them, and we say emphatically that there has never been anything on the market to eclipse the NEW FORMULA DAISY.

### ITS INGREDIENTS ARE FIVE TIMES AS COSTLY

as those of the ordinary 1d. or 2d. powder, and our advertising is impressing upon the public that the NEW FORMULA DAISY is really a **6d. Headache Cure at 2d.** Our profits—in order that the NEW FORMULA DAISY shall be a bargain to the public and highly profitable to you—have been cut to the very bone. We have been sending out the NEW FORMULA DAISY for a considerable time, in spite of the higher cost.

## BIG ADVERTISING CAMPAIGN.

The people are being told—in 60 papers every week for the next four months—how safe the NEW FORMULA DAISY is; and how completely they may trust its costly ingredients to cure every head and nerve pain. They are being shown that the NEW FORMULA DAISY is actually a 6d. remedy at the bargain price of 2d., and they will come in scores to your pharmacy to buy.

Read the list of papers in which our advertising is appearing, and if there is one that covers your district send in your order now—you will easily and quickly sell every NEW FORMULA DAISY you care to buy.

Powerful advertisements of the NEW FORMULA DAISY are appearing weekly in all the following journals—

Lloyd's Weekly News  
Reynolds's Newspaper  
Amalgamated Press  
Family Herald  
Sphere " Supplement  
Graphic  
Sunday Chronicle  
Newcastle North Mail  
Yorkshire Telegraph and Star  
Evening Post  
Cardiff Evening Express  
Lancashire Daily Post  
Glasgow Evening Times  
Bradford Daily Telegraph  
Bristol Evening News  
Cardiff Western Mail  
Wakefield Express  
Bristol Evening Times  
Rochdale Observer  
Liverpool Echo  
Newcastle Evening Chronicle  
Aberdeen Evening Express  
Dublin Evening Mail  
Northern Echo  
People

Sunday Herald  
People's Friend  
John Bull  
Passing Show  
Illustrated London News  
Novel Magazine  
London Evening News  
Manchester Evening Chronicle  
South Wales Echo  
Northern Daily Telegraph  
Irish Independent  
Edinburgh Evening Dispatch  
Hull Daily Mail  
Exeter Express and Echo  
Bradford Argus  
South Wales Daily News  
Western Evening Herald  
Accrington Observer  
Halifax Guardian  
Evening Courier  
Nottingham Evening Post  
Belfast Evening Telegraph  
and many other important periodicals

### READ THIS LONDON SPECIALIST'S OPINION—

Dr. ROBERTSON WALLACE, M.B., C.M.

64 Haymarket, Piccadilly Circus, W.

DEAR SIRS,—For many years I have watched the introduction of headache specifics and subjected them to both analytical and clinical tests, but have never felt inclined to approve of their composition or effects. I must admit, however, that your new formula for the 'Daisy' Headache Cure merits my complete approval, and I am especially pleased to note that you have replaced the depressing ingredient, acetanilid, by an infinitely safer and more certain principle, free from any possibility of causing injury to the system. I lay great stress both on its efficiency and safety, and am constrained to compliment you on your commercial courage in placing an unusually costly formula, at a reasonable charge, at the command of the public."

Yours faithfully (Signed) ROBERTSON WALLACE.

Show that yours is an up-to-date, progressive store—a place where the Public can get what they want when they want it, and

**Send us your Order or see your Wholesalers to-day.**

### TERMS.

- 1/- PACKETS EACH CONTAINING 8 POWDERS.—Minimum Retail Price, 1/-; Sample Powder, 2d.  
For not less than 1 Doz. Boxes ... 9/9 per doz. For not less than 3 Doz. Boxes ... 9/2 per doz.
- 2/3 PACKETS EACH CONTAINING 20 POWDERS.—Minimum Retail Price, 2/3.  
For not less than 1 Doz. Boxes ... 21/6 per doz. For not less than 3 Doz. Boxes ... 20/6 per doz.
- MIXED ORDERS for 1/-, 2/3, 6/- Size and for DAISY TABLETS on best terms. DISCOUNT, 7½ per cent. for cash.  
Carriage Paid to destination.

## DAISY LTD., Mammoth Works, LEEDS.



The Arabic numerals (1 to 32) in this Index refer to Advertisements in the front of literary pages the Advertisements following the literary pages are numbered in Roman numerals (1 to xlv).

[illegible]

**PROFITABLE !**  **13 to the Dozen,**  
as long as Window Bill is  
displayed.

*Facsimile of Two-colour Window Bill, size 10'' by 30''*

**Free Window  
Bills**  
—  
**Free Counter  
Cards**  
—  
**Free Delivery  
Nearest  
Station.**

## Is your Food causing you Digestive Trouble ?

# TAKE "PEPTOCINA"

Pronounced PEPTO-SEEN-R.    British Product.    Established 1895.

**And you will get the last grain of Nourishment out of your Food.**

**You can get it here. Price 1/3.** A Real Soother and Carminative for the Stomach. It is very pleasant to the taste. You just let it dissolve slowly in the mouth.

## THE "DAVINS"



BRAND.

**New Buyers,  
Cash with  
Order**  
1 doz (13)  
12/- net.  
3 doz. (39)  
36/- net,  
Plus a good  
supply of Prin-  
ted Handbills.

**Excellent Profit, and nothing to do but hand it over the counter. Sure repeats—we are having many. Sells 1/3.**

Apply for prices for  
**PILLS, CAPSULES, TABLETS, AND  
OWN-NAMED PACKED LINES.**

**Manufacturing Chemists.**

**THE BRIDGE STREET, DERBY.**

(DERBY) LTD.



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## GOTHENBURG, SWEDEN.

Cable Address—"BERGVALL."

ESTABLISHED 1877.

*Large Importers of*  
**Chemicals, Drugs, Colours,  
 Metals and Oils.**

Bankers - - Skandinaviska Kredit Aktiebolaget, Göteborg.

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USE  
THE

**DEMON  
SEALING MACHINE**

THE QUICKEST, SIMPLEST & SUREST  
METHOD OF PARCELLING.

Ask for particulars and samples, or,  
better still, our representative will  
be pleased to call and demonstrate.

**GUMMED PAPERS LTD.**

Regd. Offices:

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## LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,  
— Manufacturing Chemists —

**HULL.**

INVITE the Trade to take up the following valuable  
P.A.T.A. Protected Lines, bearing a very large  
Protected Retail Profit, which sell freely and are  
well known and valued by the Public in many parts  
of the country.

	P.A.T.A. Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.	6/6
" " " " " bottles in	2/-	16/-
" " " " " cartons		

\*Losall's Salt sells so well, surely it  
must pay Pharmacists to stock such  
a big profit-bearing protected line.

**LOSALL'S COMPOUND SULPHUR SOAP.**

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box	2/-	18/-



# SACCHARINE

INSOLUBLE - GUARANTEED U. S. P. 550.

Spot and Forward Deliveries  
Also METHYL SALICYLATE.

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**GASTON, WILLIAMS & WIGMORE, Ltd.**

20 BISHOPSGATE, E.C. 2.

TELEPHONE: London Wall 3040.

T. A.: "Gastonorge, London." (1)

## SACCHARIN TABLETS.

Exceptional Offer.

$\frac{1}{2}$  grain 330.

Cash with Order.

1 lb. (Average over 7,000)	£4 0 0
5 lb. " "	@ £3 19 0
10 lb. " "	@ £3 18 0
20 lb. " "	@ £3 17 0

MARSH, BROOKS & Co. 58 Victoria Sq., BOLTON.

## SPECIAL OFFER OF SACCHARIN TABLETS.

Full Strength, Guaranteed 330  $\frac{1}{2}$ -gr.

13/7 per 1,000 for not less than 1 lb. (7,000).

$\frac{1}{2}$ -gr., 10/- per 1,000 for not less than 1 lb. (8,000).

(Special quotation for large quantities.)

Cheque with order, crossed London City & Midland Bank

WATSON & CO., Tablet Mfrs., Quorn, LOUGHBOROUGH

## Aspirin Tablets

in Bulk.

5 grs. 13/- per 1000.

In bottles of 25, 6/-, of 50, 10/-, of 100, 19/- per doz.

Saccharin Tablets  $\frac{1}{2}$  grain 6/- per 1000.

" "  $\frac{1}{3}$  " 8/- " 1000.

" "  $\frac{1}{2}$  " 11/- " 1000.

Cash with order. Postage free.

Special prices for larger orders.

## THE B. & A. TRADING CO.

Alkima Works, 65 Regent's Park, Road, LONDON, N.W. 3.

## Saccharin Tablets.

$\frac{1}{2}$  gr., 330 in 1. Guaranteed the Genuine Article.

£4 per lb. Cash with Order.

Delivery per return. Reg. post paid. Special quotations for large quantities.

HENRY BOWN, Chemist, 154 Cemetery Road, SHEFFIELD.

Telegrams: 2742 Sheffield.

## HOLMIER SACCHARIN TABLETS.

REDUCTION IN PRICE.

All approx. 8,000 to 10 lb. American Saccharin

5,000 lots ...  $\frac{1}{2}$ -gr. 11/6  $\frac{1}{3}$ -gr. 15/9  $\frac{1}{2}$ -gr. 17/3 per 1,000

10,000 " " " 11/3 " 15/6 " 17/- "

20,000 " " " 11/- " 15/3 " 16/9 "

50,000 " " " 10/9 " 16/- " 16/6 "

100,000 " " " 10/6 " 15/9 " 16/3 "

Cash with Order. Reg. Post Paid. Immediate Delivery.

Orders less than 5,000 will be 6d. per 1,000 extra.

MEYER, Manufacturing Chemists, 98 COLMORE ROW, BIRMINGHAM

## DAMANCY & CO., HARROW

### SACCHARIN (Monsanto) TABLETS

$\frac{1}{2}$  grain 330 in each tablet.

9/- per 1,000; 8/6 per 1,000 for 20,000; 8/- per 1,000 for 100,000. Reduction for larger quantities. Cash with order. Carriage paid.

## MEET COMPETITION!

### SACCHARIN TEA SWEETENERS.

(UNCONTROLLED).

In Envelopes of 100, Retail ... 1/7 $\frac{1}{2}$

Wholesale, 19/6 per doz., less 25%.

Carriage paid. Cash with order.

A. S. PRICE & CO. Ltd., Blackheath, BIRMINGHAM



# Saccharin Tablets

(UNCONTROLLED).

$\frac{1}{4}$ -gr. 330 strength @ 10/- per 1,000

$\frac{1}{3}$ -gr. 330 " @ 14/- "

$\frac{1}{2}$ -gr. 330 strength @ 17/- "

Not less than 2,000 tablets supplied. Registered postage 8d. 10,000 upwards, post paid. Cheque with order. Any quantity supplied by return of post.

Samples on application. Bulk GUARANTEED to sample.

**W. BENNISON & CO.**

59 MARK LANE, LONDON, E.C. 3.

Telephone: Ave. 3727. Telegrams: "Polychem, Fen, London."

*To Manufacturing Chemists.*

# HONEY

slightly damaged, at bargain price; small quantity for quick removal.

*Apply for Samples and Quotations.*

**J. WOODHEAD & CO.,**  
16 LORD STREET, LIVERPOOL.

## HALF A TON OF SACCHARIN TABLETS

Made from Monsanto Saccharin each guaranteed to contain  $\frac{1}{3}$ -gr. 330 in 1, 7,000 to the lb.

1 lb., 78/- 3 lb. @ 77/6 7 lb. @ 77/-

14 lb. @ 76/6 28 lb. @ 76/-

In envelopes each containing 100 @ 14/9 per doz.

$\frac{1}{2}$ -gr. 330 in 1.

8,000 to lb. @ 7/- per 1,000. 7,000 to lb. @ 8/- per 1,000. 7 lb. lots 1/- per lb. less.

Cash with Order. Carriage Paid.

**R. GIBBINS & CO.** Tablet Manufacturers.

1 Birkbeck Road, Kingsland, London, E. 8.

**DAMANCY & CO., HARROW.**

## SACCHARIN (MONSANTO) TABLETS

$\frac{1}{3}$ -grain 330 in each Tablet.

12/6 per 1000. Reduction for large quantities. Cash with Order. Carriage paid.

## SWEETENING POWDER.

*16 times as Sweet as Sugar.*

12/- per lb. Cash with Order. Carriage paid. Containers free. Perfectly pure, white, and soluble.

**"HALACO"** THE SIGN OF QUALITY.

### HONEY—Finest White Set

Nominal 1-lb. Glass Containers, 28/- doz.

" " Wood Pulp " 26/- " Net Cash.

### SWEETENING POWDER

**"HALACO" The Record Seller**

7 $\frac{1}{2}$ d. packets, 54/- gross, net.

Cash with order.

### BAKING POWDER

The Best, 1/10 lb.

### SOOTHERS

From 11/6 gross.

### SANITARY TOWELS

1's 12/6, 2's 18/- gross.

SEND FOR LIST.

**HASTING, LANG & CO., LTD.**

Wholesale Druggists & Manufacturing Chemists,  
1 ROMAN ST., CHURCH ST., MANCHESTER.

**A Light in the Dark!**

## LUMINOUS PAINT.

**A QUICK-SELLING LINE.**

Sells at 6 $\frac{1}{2}$ d., 1/- and 2/- per bottle. Neatly got up. Packed in cartons, with an attractive showcard, which arrests the attention of the public. Mixed ready for use. No trouble.

6 $\frac{1}{2}$ d. size, 4/6 doz.; 1/-, 8/- doz.; 2/-, 15/6 doz.

**MAW, SON & SONS, Ltd., ALDERSGATE ST., E.C.**



**"BENNET'S"****Saccharin Tablets**

The Finest yet offered. Soluble.  
 Immediate Delivery from Stock.

1 lb.	...	...	£7 0 0	per lb.
5 lb.	...	...	£8 18 9	"
10 lb.	...	...	£8 18 3	"
50 lb.	...	...	£8 17 6	"
100 lb.	...	...	£8 16 6	"

CASH WITH ORDER.

CARRIAGE PAID.

**BENNET & CO.,** Cromwell House,  
 HOLBORN, LONDON, W.C. 1.

Envelopes containing 100

UNCONTROLLED

**SACCHARINE TABLETS** $\frac{1}{4}$  gr., 330, @ 15/- per dozen net. $\frac{1}{4}$  gr., 330, @ 20/- " "

Tubes, 1/- per dozen extra.

Special quotations for bulk.

Carriage paid.

Cash with Order.

Delivery day after receipt of Order.

**THE CLEVELEYS CHEMICAL COMPANY**

22 &amp; 23 Ct. Tower Street, London, E.C. 3.

**Saccharin Tablets**

AND

**SACCAS TEA SWEETENERS**SACCHARIN TABLETS,  $\frac{1}{4}$  grain (330) 10/6 per 1000

SACCAS SWEETENING TABLETS - 9/- per 1000

**SACCAS SWEETENING POWDER  
IN PACKETS.**Equal to  $\frac{1}{4}$  lb. sugar, 3/10 per doz.

"	"	$\frac{1}{2}$	"	"	7/6	"	"
"	"	1	"	"	14/-	"	"

**CONFECTIONERS'  
SWEETENING POWDER**

16 times sweeter than sugar, 15/- per lb.

£76 per cwt.

Prompt free delivery.

Cash with order.

**THE THAMES CHEMICAL CO., LTD.**

12 Norfolk Street, Strand, W.C. 2

**SACCHARINE TABLETS.***EACH TABLET ONE GRAIN. GUARANTEED.*

		$\frac{1}{4}$ -gr.	$\frac{1}{3}$ -gr.	$\frac{1}{2}$ -gr. in each
5,000	-	9/6	13/9	15/3 per 1,000
10,000	-	9/3	13/6	15/- "
50,000	-	8/9	13/-	14/6 "
100,000	-	8/6	12/9	14/3 "

Large quantities equally low price.

Analysis invited.

Each thousand packed in box.

**CARMOL MANUFACTURING CO.**

(Actual Manufacturers)

28 BATH ROW, BIRMINGHAM.



# "FARRIS'S"

Real Old-fashioned Genuine Air Bleached

# BEEES

# WAX



*The ONLY Actual MANUFACTURING WAX CHANDLER in the City of London.*

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**BRITISH WAX REFINING**  
COMPANY, LIMITED.

**WHITE BEESWAX**  
**YELLOW BEESWAX**

Slabs, Bars, Tablets or Discs

**CERESINE WAX**  
**Bleached Carnauba Wax**  
**Carnauba Wax Residues**

*All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY.*

Registered Office:

**5 RANGOON ST., LONDON, E.C.3**

**Lorco**

ESTABLISHED 1890.

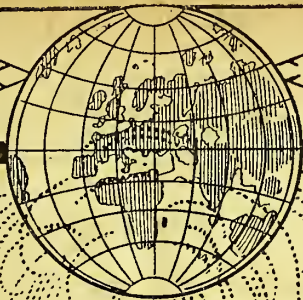
**The London Oil Refining Co.,**  
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MANCHESTER, S.W.

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**General Supplies  
for  
Wholesale Druggists**

Sweet, Pale,  
Brilliantine Oil,  
Etc.





WITH THE ADVENT OF PEACE  
AND THE REBIRTH OF NATIONS  
THE WORLD OVER, THE HOUSE OF  
MAW WILL PERFORM ITS SELF-  
IMPOSED TASK OF EXPUNGING  
FROM ITS FABRIC ALL THAT  
TENDS TO RETARD PROGRESS IN  
COMMERCE AND SOCIAL AMITY WITH  
THAT STEADFASTNESS OF PURPOSE  
WHICH HAS MADE ITS NAME  
FAMOUS IN FIVE CONTINENTS.

FOR 1919

GREETINGS AND SINCERE WISHES FOR  
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of Pharmacy,**

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London, S.W. 9.**

The Straight Road for  
Success in Pharmaceutical  
Studies in 1919.

**QUALIFICATION****LONDON COLLEGE OF PHARMACY**

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MINOR—Next Term begins on Jan. 8th.

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The number of Students who have passed the Pharmaceutical Examinations from the London College since its establishment exceeds that from any other school.

*For Prospectus, &c., apply to the Principal.*

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REALLY  
SENSIBLE  
CHRISTMAS GIFT**

would be to give your Junior a "Postal Course of Pharmacy Tuition" of the Chester and N. Wales College of Pharmacy. It would do him or her good, *and you, too.*

Junior 3 gns., Minor 4 gns. Do it now. Write Sec.,

**Chester & N. Wales College of Pharmacy,  
HOOLE, CHESTER**

**Eucalyptus Oil  
B.P.**

**PERRY & HOPE LTD.  
1 Leadenhall Street, London, E.C. 3.**

Telegrams - "PERRYHOPE, LED, LONDON."  
Telephone - - AVENUE 5661 (3 lines).

**Liverpool School of Pharmacy**

Principal: H. HUMPHREYS  
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Recommended by the  
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The following prices will come in force as from the date of this issue:—

Advert. Price.		Minimum Retail Price.	Minimum Wholesale Price.
2/6	Allen & Hanburys' Anatomical Tooth Brushes ... ..	2/6	22/6

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## 1868 to 1918

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How they diffuse themselves  
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As if they loved the element  
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A combination of the OILS of CAMPHOR, EUCALYPTUS and PINE.

It is primarily intended for use in a hot-water inhaler, but it answers equally well for re-charging the popular Pocket Inhalers. Indeed, a bottle of Breath of the Pine should be sold with each Inhaler.

The show material is up to the "Ayrton" standard and is connected up with the Carton by an enlarged reproduction of the delightful little vista of Pine trees which decorates the side panels.

**7/3** per dozen ; **84/-** per gross

NAME AND ADDRESS ON THREE DOZEN AND UPWARDS

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possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

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Two or three Pastilles after each meal facilitate Digestion.

**CAUTION.**—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the **SOLE AGENTS:** INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

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The croakers who told us we could never beat Germany are now on a new tack.

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If you will give us the same vigorous support that you have done during the past two years, we confidently believe that, as soon as our output can be increased *ad lib.*, we can push the sales of Sanatogen and Formamint in such a way that they will reach and maintain a level incalculably higher than the existing demand.

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## Cold Cream Toilet Soap

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we are pleased to inform our numer-  
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For Artists' Colours, Tooth Pastes, Lanoline, &c.

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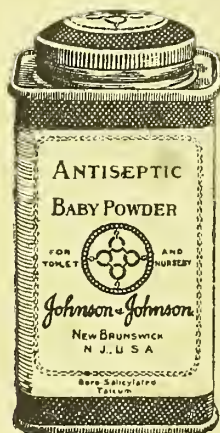
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Look for the Name  
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## *Johnson & Johnson.*

← Minimum Retail Selling Price P.A.T.A. 10½d. per package.  
Cost 7/- per dozen net.



We are now in a position to supply THE ORIGINAL  
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**There is No Greater Attraction**  
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(3)



**The Finest Quality**  
**Aerated Waters are**  
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**ESSENCES**

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**Soluble Essences are**  
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IN these days of substitution and makeshift, it is pleasing to know that so far as Toilet Preparations are concerned, the pre-war purity and excellence is still to be obtained in the Pomeroy Specialities. Here are three which will give satisfaction and pleasure to your customers.

**Pomeroy**  
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1/6, 3/6 & 5/- Pots.

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1/- Tubes.

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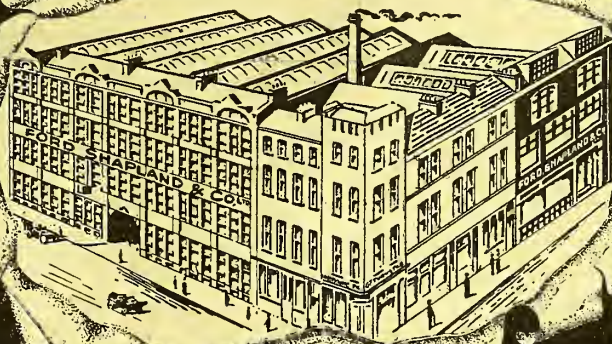
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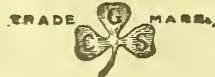
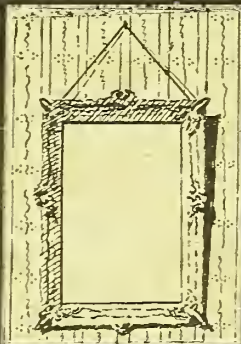
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STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from  
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Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese  
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**SAVE 3/- PER GALLON**  
**BY BUYING**  
**GUARANTEED GENUINE**  
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Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

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**FOR HOME DYEING.**

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

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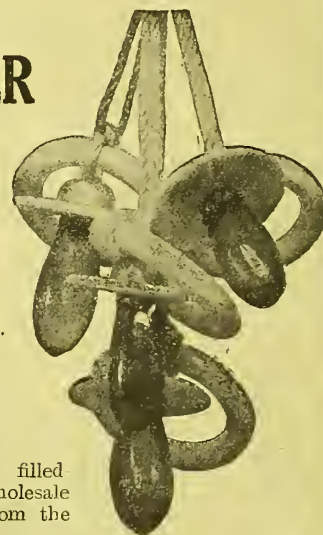
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Patented  
Everywhere



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2. 4d. line 2/8 doz.

2C. 6d. " 3/- "

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Orders promptly filled through the wholesale trade, or direct from the Patentees.

Trial orders, minimum value 13/6 cash with order, carriage paid U.K. from

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Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/- Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

**Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.**

½ Doz.	Ingram's Milkweed Cream	...	Retails 2/-	Price 8/-
½ Doz.	Velveola Souveraine (Face Powder)	"	2/-	" 8/-
½ Doz.	Zodenta Paste for the Teeth	"	1/-	" 4/-
½ Doz.	Rouge, Light, Medium, Dark	"	2/-	" 4/-
½ Doz.	Perfume, 1 oz. assorted in fancy packages	...	4/-	" 16/-
100 Guest Room Packages free.				£2

**Shipped via Parcel Post Prepaid.**

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).

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Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.



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OF GENERAL PHARMACOLOGY,  
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**LONDON AGENTS:  
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**CHAPOTEAUT'S  
CAPSULES of  
PHOSPHOGLYCERATE  
of LIME.**

**THE BEST TONIC FOR  
FORTIFYING AND BUILDING UP  
THE NERVOUS SYSTEM.**

*Sold by all Chemists.  
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**MORRHUOL CHAPOTEAUT**



**CAPSULES**

MORRHUOL DE CHAPOTEAUT  
is extracted from cod-liver oil, and  
contains all its efficacious proper-  
ties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,  
restores the appetite, and gives force to  
feeble persons.*

**SOLD BY ALL DRUGGISTS.**

**CHANDRON'S  
DROPS**

**(Gouttes des Colonies)**

**A harmless antiseptic  
preventative against CHOLERA-  
FERMENTATION - INDIGESTION  
& other intestinal disturbances.**

**SOLD BY ALL CHEMISTS**

*I find the odor exquisite and  
will of Chapoteaut has called  
by the name Mary Garden  
Milly Paddy*

**PARFUM**  
**MARY**  
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# Petroleum Jelly

White, Yellow, Amber,  
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Pharmaceutical and  
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LIVERPOOL - - - MANCHESTER

## EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content ... 70/80%  
Optical Rotation ... 0 to 1  
Specific Gravity ... '919 to '928  
Absolutely Free from Phellandrene.

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## Wills.

MR. JOHN BALCOMB, chemist and druggist, 10 Suffolk Parade, Cheltenham, who died on July 24, left estate valued at 3,003l. 11s. 4d. gross, with net personalty 574l. 7s. 7d.

MR. JAMES SMITH, 21 St. Paul's Square, York, late of Hirst, Brooke & Hirst, Leeds, who died on September 1, left estate of the gross value of 1,760l. 18s. 8d., with net personalty 1,218l. 16s. 8d.

MR. HERBERT STEAD WRIGHT, The White House, St. Stephens Square, Bayswater, late with Dakin Bros., Ltd., who died on November 18, left estate valued at 1,500l. 16s. 6d. gross, with net personalty 1,463l. 1s. 4d.

MR. JOHN BAXTER, J.P., chemist and druggist, Ballymoney, co. Antrim, who died on March 26, left personal property in the United Kingdom valued at 58,589l. 11s. 8d., of which 23,100l. 14s. 1d. is in England.

MR. JAMES PASCALL, J.P., 68 Addiscombe Road, Croydon, governing director of James Pascall, Ltd., who died on May 10, has left property of the value of 65,700l. 11s. 11d., the net personalty being 61,446l. 7s. 8d.

ALDERMAN SAMUEL EBENEZER JOHNSON, J.P., L.R.C.S., L.S.A., Ph.C., 171 Alcester Road, Moseley, Birmingham, who died on October 11, aged seventy-six, left property of the gross value of 12,478l. 14s. 11d., of which 11,338l. 19s. 7d. is net personalty.

MR. THOMAS DENCE, Birk House, Boscombe, of Brand & Co., Ltd., Vauxhall, who died on October 12, has left property valued at 916,672l., with net personalty 868,340l. The employés of Brand & Co. are to have 5,000l. distributed among them.

## Experiences of the Great War.

*Contributions to this section are invited.*

### III.—Dispenser and Showman.

ON the outbreak of war I felt that I must do my bit, and be a Kitchener hero. Being a Major man, with good dispensing experience in four civil hospitals, I hoped that I might be of immediate use. In September I was released from my civil employment, and found that my best procedure was to enrol as a sergeant-dispenser at 6s. per day. At the recruiting offices in Liverpool, London, and Glasgow, where I applied in my wanderings, I was told that there was no need of dispensers, and the necessary 6s. a day men had all been enrolled on or before August 11. They offered to enrol me as a full private in the R.A.M.C. To abandon home and friends and the comforts of life might, I thought, be the beginnings of "doing my bit," so I closed with their seductive offer of 1s. 2d. a day and proceeded forthwith to Tidworth on what turned out a long ten months' training. I had a go at most of an R.A.M.C. private's duties—forming fours, peeling "spuds," route marching, scouring dixies, and serving beer in the sergeants' mess. Desultory lectures were given to us on wet days. First-aid lectures some of them were, on the bones, arteries, muscles, etc. Lectures were also given on field ambulances and their duties on active service. Some of the instruction would have been useful in the Boer war, but we did glean useful hints on some things, as field kitchens, tent-pitching, and contents of the panniers. The stretcher drill by numbers and the drill with distant blasts of a whistle were much practised, but we did not use these methods in France. November came on, and, sleeping twelve in a bell-tent, the mud and cold and discomfort were very unpleasant, and the long, dark evenings miserable and lonesome beyond belief. To cheer myself and my companions I used to go to the Y.M.C.A. marquee, where there was light and warmth and even benches to sit on, though our feet were still on the mud floor. There we held little concerts, and I was finally regarded as unofficial organiser of sing-songs and dispenser of merriment to tired Tommies.

It was a great day for pharmacy and for me when I got my first promotion. The five field ambulances were paraded one day. Special men were wanted to be cooks, clerks, nursing orderlies, stretcher-bearers, and, finally, three dispensers and one washerman for each field ambulance. The recruiting people must have deceived me about the dispensers. Although many N.C.O.s and men stood out in answer to the call for dispensers, it turned out that I was the only one in a thousand men who had any civil or Army qualification. I did not say I was a Major man, as I found that sometimes it created jealousy. I simply said I was a chemist and druggist, an "M.P.S.," so I was made an acting supernumerary lance-corporal without pay. I was detailed to assist in examining the other men who desired to become Army dispensers. I set some very simple questions for the guidance of the officers. A few doses of very commonly prescribed preparations—*aspirin*, *bismuth salts*, *liq. hydrarg.*, *perchlor.*, *ol. ricini*, *tinct. nucis vom.*, *mist. sennæ co.*; composition of easy hospital formulæ—*mist. alb.*, a few incompatibilities, Latin abbreviations, as "i.i.d.," uses of the drugs, dressings, and instruments in the field panniers. Very few could answer satisfactorily, so we took the best of a bad bunch, and, as we had to have somebody, we took all those who had even a glimmering of knowledge.

In December we were moved to Torquay and went into billets. We had a truly enjoyable time there. Life was one real holiday. We marched and manoeuvred, and became fit and strong. One day, after a lecture on the points of the compass, I was called out and asked if I were able and willing to give lectures to the nursing orderlies where pharmacy would probably touch their duties. In this work I collaborated with a comrade who had at one time been a medical student. He had gone far and was well up. I dealt in simple language with teaspoons, tablespoons, drachms, half-ounces, application of dressings, liniments, lotions, inhalations, injections, etc. My colleague took up the second half-hour of each lecture, and explained clinical thermometers, temperature charts, the orderlies' duties at the bedside, discipline of the ward, discipline of the patient, employment of convalescent patients to assist in ward duties, etc. He was indeed a useful partner to me, as he knew the Army routine, and his knowledge and mine did not overlap. Meanwhile I was made corporal, and finally, in January 1916, the dispensers were all made sergeants, preparatory to going overseas.

In July 1916 we started out on the great adventure. We crossed to France and marched into Belgium. In the hideous Ypres salient we formed a main dressing-station

B



in the village school-house at Reninghelst. Great was the excitement when the A.D.M.S. notified us to be prepared to receive wounded that night. I had meantime been to Ypres and "scroured" enough drug-store fittings, shop-rounds, etc., to fit myself up to meet any rush of customers. They came. We had 100 wounded men that night. As my model pharmacy was close to the first "table," I was able to look on and watch the medical officer as he worked. As our orderlies had little experience of actual hospital work, I found myself handing the M.O. instruments, bandages, etc., and meantime I had a little steriliser, with instruments, needles, etc., ready. After all the Tommies were dressed and they were made comfortable with a hot drink and a cigarette, they had to receive an injection hypodermically of 1,500 units of anti-tetanic serum; and here came my first big job. I gave the injections, and marked a big "T" on the wrist of each man, so that he would not get another dose next day when he reached the C.C.S. This injecting of serum became a regular dispenser's duty in many field ambulances, as the nearer the firing line the medical officer got the easier became his ideas on surgical etiquette. His duties were usually so strenuous that so long as the serum was given he was thankful for the work done without worrying about who did it.

Night duty was the best. The dispenser on day duty simply had a parade of sick, which went on all forenoon, like the outdoor dispensary of a civil hospital. By and by the division had to move away from the line for rest and reinforcements, and we settled near the beautiful little town of Cassel. I got on very friendly terms with the pharmacist there. His window was dressed with a couple of specie jars and a stuffed lizard. He had old bottles and real old mortars and pestles. One evening he invited me upstairs to supper. I met Madame, and was solemnly introduced as a pharmacist of the *première classe anglaise*. I was shown photographs taken by his son, who was an officer of artillery in the French Army down Verdun way. He finally gave me an old Latin Pharmacopoeia of the year 17 something, but, alas! I lost it somewhere in Belgium. This placid old pharmacist lived quietly, all unaware of the existence of cutting stores and fierce competition. One evening I told him about window-dressing, merchandising, handling side-lines, advertising, but I'm afraid I was talking over his head. He could not *compris*, though his French *politesse* forbade him to say so. He doubtless thought I was romancing in the style of Jules Verne. I certainly had all the feeling of a "Yankee at the Court of King Arthur."

Back to the line we went, this time to do the advanced dressing-station duty. That was a rough time, and they were happy who could stick the rain, the mud, the cold, and the continuous shell-fire. After our next rest we took over a divisional rest-station, where we attended to all the sick, but not the wounded, of our division. The dispensing duties were light, and I found time to run little sing-songs nightly for the patients. And they needed cheering up! Life was dismal enough for those in health, but for the sick it was very depressing, and we used to think that the nightly mirth and melody did them as much good as the drugs.

After a year of this work I saw a chance of transferring to D.H.Q. as a gas N.C.O. My O.C. tried to dissuade me by saying that this new job would take me a lot into the trenches; but I was ever one for a change, so off I went. This turned out a splendid job. My duties were to give lectures to officers, N.C.O.s, and men on gas defensive measures. We gave demonstrations with chlorine and other gases. We had a trench and dug-out, into which our pupils had to go with gas-masks on after we had filled them (the trenches) with chlorine. We had smoke-helmet drill and manoeuvres in the dark with smoke clouds, tear shells, etc. When the division was out on rest we had inspections of battalions' smoke-helmets and respirators. When the division was in the line we had to go up the trenches and see that they were carrying out the instructions given. We assisted in the fixing up of gas-proof dug-outs and alarm bells and gongs to give the alarm when an attack of gas was coming over.

I stuck this for a year and then joined the divisional concert-party, "The Duds," with whom I lived happily for several months. The A.D.M.S. sent for me one day and said that he had an order from the base that all R.A.M.C. men on detached duties must forthwith return to their units, owing to the scarcity of skilled or technical men. He said they did not want to lose me, and if I would give up my rank and return to my original imposing rank of "acting supernumerary unpaid lance-corporal," they could "wangle" it to keep me in the "Duds." It was now my turn to *ne compris*. I said I had already sacrificed the floating 6d. a day which dispensers are supposed to revel in, and that I was not giving up my rank and pay.

We were on that blighted Bapaume front at the time. The month was January, and the weather awful. I went sick with lumbago and acute rheumatism; and no wonder after three winters up the line. They offered to nurse me back to health, but I felt that I ought to see what the base was like. The high efficiency of the R.A.M.C. Service was that day demonstrated to me. I was helpless on a stretcher, and a field ambulance collected me at 8 A.M. I was taken through the advanced dressing-station, main dressing-station, and reached the C.C.S. by 11 A.M. An ambulance train was in at the time, and by mid-day I was on my way to the base. I reached Rouen next day, and commenced the last of my duties in the great war. I was detailed as a general duty sergeant to No. 10 General Hospital, and for a month carried on the duties of orderly sergeant. I was quite satisfied. There were two acting-sergeants in the dispensary, who had joined up in August 1914 at 6s. a day. Suddenly there came an order that all A1 men below the rank of sergeant must go up the line as reinforcements. The two 6s. men were taken away, and when it was necessary to replace them, once more I was the only man in the unit, excepting the two sergeant-majors, who had any qualification as dispenser.

Now, I reflected, here in a big general hospital dispensary is where I should come into my own and be of use in the great war. Accordingly I was installed as dispenser-in-charge, with two privates to assist me. The routine of an Army hospital is easier than that of a civil one. I had given red tape quite a lot of study in my Army life, and, being able to use the knowledge to my own advantage, I carried on successfully. Firstly, the war establishment of a general hospital is two sergeants and two privates, all of whom are Army dispensers. I applied to have the establishment made up, but was told to carry on, as there was a scarcity of dispensers. I furnished the names of two M.P.S.s, who I knew were at the R.A.M.C. base dépôt, half a mile away, as privates engaged on general fatigues, attached to nobody and doing no dispensing duties. I failed to secure either of those men, as that was not going through the usual channels. I think the shortage of Army pharmacists is owing to lack of organisation. They are about if someone would get their names and send where they will be employed in dispensing.

The hospital routine is as follows: From 8.30 till 10 A.M. the ward baskets arrive. We have sixty wards, and have had as many as 1,700 patients at one time. We "slog" all morning to get through, as the afternoon brings its own work in the way of replenishing stock. Of course, if there's a convoy in, it may bring a wild rush of work at any time, and very large stocks of drugs had to be kept. A convoy of 100 gassed men would mean the dispensing of gallons of tinct. benz. co. in an afternoon, and the drugs, like the Army rations, have always been supplied. No wounded or sick man has had to go short of medicines. We could observe the scarcity of drugs at home, but even sod. sal., aspirin, and practically everything we ordered came up in full measure. In addition to the hospital wards, we have twenty-nine outside units who draw their drugs and stock mixtures from this dispensary. They sent in their indents every fortnight, and some of them in their turn subdivide their drugs and supply small units, such as medical-inspection rooms. This means a lot of extra work, but an advantage is that we send in tremendous big indents, and by the time we have served all these people and our own wards we have no dead stock, while always having plenty on hand even for the biggest rush. The evenings are fairly free, and one man can generally handle all the late prescriptions and special demands, such as oxygen, which is much required for gassed men. Even here we sometimes get a bit fed up, so I turned to my old love, the showman business, to cheer myself and the patients. I put on a revue one week recently. We had scenery painted by one of our staff sergeants, and with dresses, wigs, grease-paints, etc., we did the thing in style.

And now that we have done our bit we sing, "I want to go home." For the Army pharmacist there is neither rank, pay, nor position to tempt him to stay a day longer than England's need demands. While the war was on we got down-hearted and homesick and absolutely fed up with everything and everybody, but while the Hun was loose we always carried on. I suppose you will exhort us to stick it for another month or two and finish honourably; so we will recite a bit of Kipling to the troops at next Saturday's show, and finish with—

"No easy hopes or lies, shall bring us to our goal,  
But iron sacrifice, of body, will, and soul.  
There is but one task for all,  
For each one life to give.  
Who stands if freedom fall?  
Who dies if England live?"

Sergeant Peter Irvine, Ph.C., R.A.M.C.



## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### War Regulations Relaxed.

Since our last issue the following Regulations or Orders made under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 69. *Acetate of Lime*.—This is no longer a war material, and licences or permits to deal in it are not now required.

*Acetic Acid*.—The Acetic Acid Order, 1917, and the Acetic Acid (Extension) Order, 1917, which controlled dealings in glacial and ordinary acetic acids, is suspended. Wholesale houses are no longer limited in the quantities that can be supplied in a given time.

*Acetone*.—This is no longer a war material, and can again be dispensed as an ingredient in prescriptions or sold to the public direct.

*Arrowroot*.—See Starch (*infra*).

*Benzene*.—The Benzol and Naphtha Order, which controlled crude benzol, etc., has been suspended.

P. 70. *Coal-tar*.—This is no longer a controlled product owing to the suspension of the Tar (Coal and Water Gas) Order.

*Bleaching-powder*.—The Chlorine and Chlorine Compounds Order, which controlled the supply of chlorine and chlorine compounds (including bleaching-powder), has been suspended.

P. 71. *Flour Restrictions*.—Clause 10 of the Flour and Bread (Prices) Order, 1917, under which licences are required for the use of flour for "precluded purposes," is amended, so that the "precluded purposes" are mentioned in the Order. The following is the sub-clause dealing with uses which may concern chemists:

The manufacture for purposes of sale of cake mixtures, pudding mixtures, bun or scone flour or mixtures, self-raising flour containing any ingredient (other than flour) which is not used for the purpose of self-aeration, bread improvers, baking powders, egg powders, blancmange powders, custard powders, ice-cream powders, Italian pastes, meat or soup squares or pastes, bottled or tinned soups, macaroni, spaghetti, nut or pulped fruit preparations, pea flour, sugar confectionery, chocolate confectionery, chocolates, chocolate and cocoa powders, infants' and invalids' foods, diabetic foods, pickles, curry powders, mustard, spices, condiments, yeast, and any other like preparation.

Where licences are granted accurate records are required to be kept of the amounts used for any purpose.

*Glucose*.—See Starch (*infra*).

P. 72. *Lard*.—Rationing has been discontinued, but this does not affect the prohibition of the use of lard for other than food purposes.

P. 73. *Naphtha*.—The Naphtha Order, 1917, which controlled the supply of crude solvent naphtha, solvent naphtha, and heavy naphtha, has been suspended.

*Platinum*.—Dealings may now be made in platinum without having to obtain a permit.

P. 74. *Starch*.—The Food Controller has amended and revoked certain Orders dealing with the uses of cereals and starch. Certain kinds of potatoes may now be employed for any purpose, and the restrictions on the use of the following have been removed: Tapioca, sago, manioc, arrowroot, maize, oats, and rye. None of the articles mentioned may be used in the manufacture of malt or spirits or glucose except under licence.

### Contracts.

The following Government contracts have been notified:

**WAR OFFICE.—Chemicals.**—May & Baker, Ltd.; Thomas Morson & Son, Ltd. **Medicines.**—The British Drug Houses, Ltd.; Burgoine, Burdidge & Co., Ltd.; Burroughs Wellcome & Co.; W. B. Cartwright & Co., Ltd.; Johnson & Sons (Manufacturing Chemists), Ltd.; Lister Institute of Preventive Medicine; May & Baker, Ltd.; Parke, Davis & Co.; Pierson, Morrell & Co., Ltd.; C. M. & C. Woodhouse. **Methylated Spirit.**—W. T. Alexander; B. Biggs & Co., Ltd.; Board & Son; British Distillery Co., Ltd.; J. Burrough, Ltd.; J. & D. McNair & Co.; Sutton, Carden & Co., Ltd.; Waters & Co., Ltd. **Oils.**—Anglo-American Oil Co., Ltd.; Major & Co., Ltd.; Price's Patent Candle Co., Ltd.; Sterns, Ltd.; Valvoline Oil Co. **Paraffin Wax.**—Burmah Oil Co., Ltd. **Soap.**—J. Crosfield & Sons, Ltd.; W. Gossage & Sons, Ltd.; J. Knight, Ltd.; Price's Patent Candle Co., Ltd. **Soda Crystals.**—Brunner, Mond & Co., Ltd. **Surgical Materials.**—British Vulcanised Fibre, Ltd.; Down Bros., Ltd.; R. H. Heward & Co., Ltd.; H. Lewis; S. Maw, Son & Sons, Ltd.; E. Reed & Sons; T. J. Smith & Nephew, Ltd.

**GENERAL POST OFFICE.—Soap.**—T. H. Harris & Sons.

The Corporation of Great Yarmouth has accepted the tender of Mr. T. J. Woodcock, chemist and druggist, Church Plain, for drugs, etc., for 1919.

### Leeds.

Proposals for extending the accommodation and equipment of the department of pathology and bacteriology at Leeds University have been approved. The director of this department is Professor Stewart.

### Liverpool.

The exhibition of war photographs at the Royal Institution has proved a popular success.

Retail pharmacists, as a rule, have to be content with Sunday hours on Christmas Day and a half-holiday on Boxing Day.

Mr. D. H. Evans, Hon. Secretary of the Liverpool Chemists' Association, hopes to be in a position to nominate a successor in office at the next meeting.

Owing partly to the shrinkage in the wages fund by the closing of munition works and partly to the deluge of rain, the trade in Christmas presents has declined as compared with the previous two years. This is the more disappointing because of the enterprise evident in purchases and artistic display. Several windows merited a photographic record.

### Manchester.

The "Manchester Guardian," referring to the character and dangers of the drug-habit, states that the "drug-fiend" is rarely met with in ordinary medical practice, and dispensing chemists of long experience say that they have encountered very few. For the past two years heavy restrictions have been put upon the importation of opium and cocaine. Chemists are no longer allowed unrestricted quantities of cocaine, and they must keep a separate record of its sales. A medical man must sign his full signature and qualifications—not merely his initials—on a cocaine prescription, and any such prescription must not be repeated. It is not an easy matter, therefore, for a cocaine-taker to get his supplies through reputable channels. But there is apparently a certain amount of smuggling in this drug, and by this means the vice is maintained.

### Sheffield.

Eardley and Furnival have decided not to serve on the panel of chemists for 1919.

The Christmas business has been quite on a pre-war scale. Perfumes have had their usual prominence, and several charming displays have been made.

Mr. White, the managing director of Pickard, Ltd., wholesale druggists, is to be congratulated on his two daughters having passed the M.R.C.S. and L.R.C.P.

A chemist who has been troubled through the shortage of staff has had a notice exhibited in his pharmacy reading as follows: "Don't grumble. We did not ask you to come in. If you are dissatisfied, go out. It is war-time."

The War Auxiliary Benevolent Fund is being well supported, the amount having already reached 350l. It is hoped those who have not already sent in their subscriptions to the Treasurer or collectors will do so as soon as possible.

### Miscellaneous.

**BUILDING LICENCES.**—The Ministry of National Service announce that as from December 21 the requirement of licences for building schemes is cancelled.

**SHORTER HOURS.**—Arrangements have been made at the three factories of Robinson & Sons, Ltd., Chesterfield, to reduce the working week from fifty-five hours to forty-six from January 2.

**APPROVED FIRM IN CHINA.**—Among the additions to the list of persons to whom articles to be exported to China may be consigned is J. Merian (representing the Society of Chemical Industry in Basle), Shanghai.

**ENEMY BLACK LIST.**—The Foreign Trade Department has issued a new consolidating list containing the names of over four thousand persons and firms with whom persons in the United Kingdom are forbidden to trade.

**NAVAL RADIOGRAPHERS.**—An Order in Council dated December 18 states that in future sick-berth ratings who act as x-ray attendants at certain naval hospitals and establishments are to receive an extra allowance of 6d. per diem while so employed.

**SALE OF FOOD AND DRUGS ACTS.**—At Sheffield, recently, James Buckley, pickle-manufacturer, 241 Myrtle Road, was fined 60l., with 3l. 2s. costs, for selling as pure vinegar a preparation containing, in three samples analysed, 1.22, 1.67, and 1.14 per cent. respectively of acetic acid.

**FEDERATING RESEARCH.**—It is proposed that National Research Councils should be federated to form an International Research Council. At the Conference of Scientific



Societies, held in London and Paris last month, an Executive Committee was chosen to elaborate the details of the ultimate organisations and to submit their proposals for discussion to the academies, scientific societies, and other bodies concerned. Professor A. Schuster represents the Royal Society.

**WHITLEY COUNCILS.**—During the past few weeks seven additional Interim Industrial Reconstruction Committees have been formed in the following trades: (1) Artificial stone; (2) brass and copper; (3) women's light clothing; (4) lead mining; (5) lead; (6) zinc and spelter; (7) sugar-refining, bringing the number of these Committees now at work to twenty-nine. They are giving valuable help to the Government on such matters as demobilisation, reinstatement, provision of raw materials, and priority.

**WAR LOSSES COMMISSION.**—An Order in Council has been made extending the terms of reference of the Defence of the Realm Losses Commission "to inquire and determine, and to report what sums (in cases not otherwise provided for) ought in reason and fairness to be paid out of public funds to applicants (not being subjects of an enemy State) in respect of direct and substantial loss incurred and damage sustained by them by reason of interference with their property or business in the United Kingdom through the exercise by the Crown of its rights and duties in the defence of the Realm."

**ANTI-GAS WORKERS' DINNER.**—On December 18, a dinner was given at the Criterion Restaurant, London, W., by John Bell, Hills & Lucas, Ltd., Oxford Works, S.E., to the section managers of the anti-gas factories which the company are closing down after near four years' activities. The event was of the nature of a farewell, as about 4,000 employés are leaving at the end of this year. Among the pharmacists present were Messrs. Walter Hills, Ph.C. (chairman), E. W. Lucas, Ph.C., J. S. Hills, Ph.C., H. B. Stevens, Ph.C., L. N. Hensman, Ph.C., A. D. Dick, M. Walmsley, H. J. Cowley, Ph.C., W. B. Nelson, Ph.C., and E. C. Cripps.

**INDUSTRIAL FATIGUE.**—A Research Board has been appointed by the Department of Scientific and Industrial Research and the Medical Research Committee jointly to consider and investigate the relations of hours of labour and of other conditions of employment, including methods of work, to the production of fatigue, having regard both to industrial efficiency and to the preservation of health among the workers. The duty of the Board will be to initiate, organise, and promote by research, grants, or otherwise investigations in different industries with a view to finding the most favourable hours of labour, spells of work, rest pauses, and other conditions applicable to the various processes according to the nature of the work and its demands on the worker. The Secretary's address is 15 Great George Street, Westminster, S.W. 1.

**TRADE WITH BELGIUM.**—The Board of Trade calls attention to the fact that the restrictions imposed by the Trading with the Enemy (Occupied Territory) Proclamation no longer apply to trading with Belgium, and that consequently the obligations to obtain a special licence under that Proclamation, as well as the requirement to pay the purchase price for goods imported from Belgium into a blocked account in this country, are now dispensed with. Imports from Belgium into this country must, however, be accompanied by certificates of origin and interest issued in the usual form by a British Consular officer. Imports into and exports from Belgium are further controlled by the requirement of a licence issued by the Belgian authorities, particulars with regard to which can be obtained from the branch of the Department des Affaires Economiques which has been opened at 110 Cannon Street, London, E.C. 4. The prohibition against the importation of Belgian bank notes into the United Kingdom has been revoked.

**POISONINGS.**—An open verdict was returned at a Kensington inquest on December 13 in the case of Constance E. Dunne, a widow, who was found unconscious on the stairs at her residence, and died soon afterwards. Dr. R. C. Jewsbury, pathologist at Charing Cross Hospital, stated that he believed death to be due to coma from narcotic poisoning. An open verdict was returned at an inquest on December 19 on the body of Sergeant Patrick Douglas Holt, who, it was stated, had prior to joining the Army been a druggist in Ontario. Morphine tablets were found on him, and the medical evidence was to the effect that he died from narcotic poisoning. Dr. Oscar Henri Hensler, Fulham Road, London, S.W., committed suicide with chloroform; at the inquest on December 20 a "Temporary insanity" verdict was recorded. At Nottingham, on December 21, an inquiry concerning the death of Mary J. G. Paseach, who was found in a comatose condition with veronal in her bedroom, resulted in a verdict of "Death by misadventure." Mr. R. S. Trotman, public analyst,

stated that death was due to an overdose of veronal.—W. Ackerman, a Clapton tailor, committed suicide by taking cresolene.—At Haggerston, London, E., Elizabeth Cummings committed suicide by taking spirit of salt.—E. H. Goodfellow, assistant to a Sheffield watchmaker, committed suicide by taking potassium cyanide.—W. Rhodes, Bingley, committed suicide by taking ammonia.

**IN THE COURTS.**—At Bow Street Police Court, London, on December 19, George Dennis Murphy, Walter John Franklin, and William Russell Tossell were summoned for offences against the Venereal Disease Act, 1917. It was stated for the prosecution that the premises in which the alleged offences had been committed in Charing Cross Road and Cranbourn Street appeared to be run by an individual or firm under the style of the Hygienic Stores Co. The defendant Murphy, who passed himself off as Dr. Patterson, was charged that, not being a duly qualified medical practitioner, he did for reward prescribe a certain remedy for venereal disease—to wit, "Dr. Rickard's injection"—and Franklin, a young assistant, was joined with him in that charge. All three defendants (Tossell being also one of Murphy's assistants) were further charged with holding out to the public, by means of a printed label, certain pills called "Santolgons" to be used for the relief of venereal disease. The defence was that Murphy thought the Venereal Disease Act had been repealed. The Magistrate, after remarking that he had power under the Act to send offenders to prison, fined him, including costs, 110*l.* 10*s.* Tossell was fined 50*l.*, and Franklin 25*l.*—At Marlborough Street Police Court, London, on December 20, Ada L. P. You, charged on remand with offences in connection with opium-smoking (*C. & D.*, December 21, p. 35), was sentenced to five months' hard labour. Lo Ping You, the husband of this woman, was on the same day fined 10*l.* at the Thames Police Court for similar offences.—At Blackburn County Court, recently, an action was brought by Meadowcroft & Sons, Ltd., fruit-essence manufacturers, etc., against Mr. J. W. Wardell, Sheffield, for 28*l.* in respect of a ton of bicarbonate of soda. Plaintiffs' case was that defendant ordered the soda at their showroom in Birmingham for immediate delivery at the agreed price of 28*l.*, and afterwards wired that an error had been made in the invoice in regard to price. The defence was that there was no contract. Judgment was reserved.—At Marlborough Street Police Court, London, on December 20, A. Chang, curio-dealer, was remanded on a charge of being in possession of opium-smoking utensils.—At Liverpool Police Court, on the same day, Virginia Dahmann was remanded on a charge of stealing a bottle of cocaine from a dental surgery.—At Bromley (Kent) Police Court, on December 23, James Allan, Aldborough, Chislehurst, was fined 20*l.*, with 10*l.* 10*s.* costs, for practising as a doctor without being registered. It was stated that the accused had been practising as a doctor since 1833, and that the discovery of his fraud arose out of the conferring of the Order of the British Empire upon him for services rendered as an assistant-director of V.A.D. work. He had studied medicine for a time, but had apparently never attempted to qualify.

## Irish News.

### Brevities.

During the Christmas holidays most of the business houses in the Belfast wholesale drug-trade will remain closed from Tuesday evening, December 24, till Monday, December 30.

Dr. Walter J. Healy, Ph.C., has been elected medical officer for the South City (No. 4) District Dispensary District, Dublin, where for the past three years he has been doing duty as *locum tenens* for Dr. Clinch, who was on war work.

Second-Lieutenant R. A. Richey, Royal Irish Fusiliers, who was taken prisoner in October, arrived at his home in Belfast this week. He was an apprentice with Davidson & Murray, Mountpottinger, Belfast, before enlisting. He was originally reported killed by the War Office.

A reunion of the employés of Mr. Samuel Gibson, King Street, Belfast, took place in the Carlton, Belfast, on December 21. There was a large attendance. The guests included Mr. and Mrs. Samuel Gibson and Mr. and Mrs. W. J. Gibson. After a repast a whist-drive took place, for which prizes had been presented, the winners being: Ladies: (1) Mrs. W. J. Gibson, (2) Mrs. Martin, (3) Miss Bergin. Gentlemen's prizes: (1) Mr. F. Gibson, (2) Mr. Lindsay, (3) Mr. W. J. Gibson.

Major Horace R. Haslett, Royal Irish Rifles, who was captured by the Germans on May 27, has been released, and reached his home in Belfast on December 18. This



officer is a son of the late Sir James Haslett, M.P., Belfast, and a director of J. & J. Haslett, Ltd., wholesale druggists, North Street, Belfast. He went to the Front in October 1915 with the 9th Battalion Royal Irish Rifles. He was wounded in the head on December 17, 1915, and figured in the casualty lists for the second time in June 1917, when he got a shrapnel-wound in the thigh. He was serving with the East Yorkshire Regiment when he fell into the hands of the enemy. Major Haslett wears the Croix de Chevalier of the Legion of Honour, conferred upon him in recognition of his distinguished services rendered during the war.

At Ballymena on December 19, a man named Cameron was charged with maliciously breaking a plate-glass window, value 10/-, in the shop of Mr. John A. Donaghy, Ph.C., Ballymoney Street, Ballymena, the property of Dr. W. R. Davison. An assistant said that the accused man came into the shop and asked for two seidlitz powders and a package of salts. Witness gave him the articles, and accused tendered a 10s. Treasury note in payment. Cameron had owed Mr. Donaghy an old debt of 4s., and witness kept 4s. out of the note to discharge the debt and returned accused 6s., not charging him anything for the salts or the powders. Cameron objected to pay the 4s., and used abusive language about Mr. Donaghy, and said he would "put in" the window. In a few minutes the stone now produced came through, shattering the window, and some of the broken glass struck witness on the face. Accused was committed for trial to the Quarter Sessions.

## Scottish News.

### Brevities.

"Famine" is the only word for the infant-food situation. Mr. Marcus Hoppenstein, chemist and druggist, 150 Sinclair Drive, Langside (a British-born subject), has changed his name to Marcus H. Stone.

There is but one topic of discussion this week—the salary question. It is considered that the many applications already made to employers for increases will strengthen their hands when they have to deal again with the Insurance Commissioners.

Mr. George J. Lindsay, chemist and druggist, 111 Nethergate, Dundee, has withdrawn from the list of chemists who dispense National Insurance prescriptions. Mr. Lindsay was Hon. Secretary of the Dundee Pharmaceutical Committee; this office is now vacant.

### Scottish Chemists' Retail-price List.

The following are among the alterations in the current Scottish Chemists' Retail-price List: *Drugs*.—Bals. Peru., 6d. dr.; conf. guaiaci co., 8d. oz.; glycerin, 4d. oz.; glye. boracis, 8d. oz.; glye. pepsin, 1s. 6d. oz.; phenacetin, 2d. 10 gr.; pot. tart. acid., 6d. oz.; quin. sulph., 1s. 2d. dr.; sacch. lact., 6d. oz.; succ. glycyrrh., 10d. oz.; vaselin. alb., 4d. oz. *Proprietarys*.—Alcock's Porous Plaster, 1s.; Erasme Cream, 1s. 3d.; Valentine's Meat Juice, 4s.

### Chemists' Friendly Society.

The annual report and statement of accounts of the Chemists' Friendly Society has been issued for the period ended June 30, 1918. The report states that about 230 new members have been admitted during the year, and that the number of members known to have joined the Forces is about 1,200. The retiring directors, Messrs. J. H. Murphy, A. McMillan, D. L. Dewar, T. C. Hutchison, and P. Doig, are eligible for re-election, as also are the retiring trustees and manager. The cash account shows that advances amounting to 1,984/- have been received from the National Insurance Commissioners; benefits granted amount to 393/-, and investment to 1,480/-. The following note is appended to the abstract of accounts:

The reserve value applicable to all members over sixteen years of age at date of entry have still to be notified by the Government actuaries. The sum available for credit to investment account, to this date, is 9,355/- 13s. 10d., whereof 5,304/- 3s. 10d. has been invested in 5 per cent. War Loan Stock and National War Bonds in names of the trustees of the Society; 4,051/- is invested in the Insurance Commissioners' investment account, and the balance, 10s., is in hand.

### Edinburgh.

The advent of seven o'clock closing promises difficulties at first on account of the medical man's time-honoured custom of late visiting, especially in working-class localities.

"What would you do," demanded a doctor recently, "if you received an urgent call to a family that has ignored the frequent rendering of a three-year-old account?"

## South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

**DRUG AND CHEMICAL IMPORTS.**—During August the imports of drugs, chemicals, and apothecaries' wares into the Union amounted in value to 153,241/-, compared with 101,871/- during August 1917; while the total for the eight expired months of the year is 852,719/-, against 654,735/-. The value of the apothecaries' wares was 10,451/-, against 8,405/-, and medicinal preparations, 19,311/-, against 11,448/- in August last year.

**"SPANISH INFLUENZA."**—Writing on November 13, our Cape Town correspondent informs us that the "influenza" has now practically disappeared from Cape Town. There have been close on 10,000 deaths, or about 1 in 16 of the population, while between 60 and 70 per cent. have been down with the disease in Cape Town alone. Throughout the whole of South Africa the total death-roll is estimated at 50,000. The demands on chemists have almost returned to normal, with the exception of a brisk demand for "tonics."

**INDUSTRIAL EXPANSION.**—The recent expansion of industrial activities in the Union has induced certain municipalities and similar public bodies to offer specially favourable terms to manufacturers in the way of water and power rates, as well as sites for the establishment of industries. The Trade Commissioner for the Union has been notified that the Pietermaritzburg Corporation is prepared to offer suitable sites on very reasonable terms, and to submit plans with additional information as to supply of labour, raw materials, railway communications, etc.

**INFLUENZA MEDICINES.**—A special meeting of the Pharmaceutical Society of the Transvaal was held in Mr. Keir's office on October 14. There were present: Messrs. Braes (President), Christie, Keir, Rennie, Macintosh, and Robert Burr (Hon. Secretary). Mr. Christie, in explaining his reason for calling a meeting, said that the doctors were holding a special meeting the same night to see how they could best support the special committee of the Town Council in the grave crisis caused by the influenza epidemic, and he felt that it was the duty of the Pharmaceutical Society to do the same. The Town Council wanted the assurance of the chemists that they would be able to supply the depots with drugs while the epidemic lasted, and also that such drugs could be had at any time when required. He (Mr. Christie) had visited the local wholesale houses and found that there was a fairly good supply of all the drugs required, except salicylate of soda, and it was thought that the present stock would hold out for at least a week if the epidemic did not become much worse. After discussion a letter was drafted to lay before the Special Health Committee of the Town Council to the effect that: (1) The chemists as a body would co-operate in every possible way with the Town Council and do all they could to assist them. (2) The Committee felt they could guarantee a supply of the necessary medicines for another week at least. (3) They were arranging with all their members for a prompt delivery of any medicines required at the depots, and further advising the members in the various districts to arrange among themselves so that medicines urgently required could be obtained at any hour of the day or night.

**CARNATBA WAX.**—During 1917 the exports from Brazil were 441 tons, against 394 tons in 1916 and 493 tons in 1915.

**SACCHARIN TABLETS.**—There is still need for caution in purchasing saccharin tablets, as some of those on offer are below the strength they are stated to be.

**KEEPING OFF INFLUENZA.**—The immunity from influenza of the 800 boys at Christ's Hospital, West-Horsham, is attributed to the systematic nose-drill which was carried out daily at the school.

**SPANISH OLIVE OIL.**—The Spanish "Mundo" (October 28) reports that a Commission of Cordoba olive-growers visited the Minister of Supply in order to obtain export permits for olive oil. Senor Ventosa refused their petition, and stated that no export would be authorised.

**CEYLON CARDAMOMS.**—The exports from Ceylon during 1917 amounted to 367,824 lb., or 73,840 lb. less than during 1916. Shipments to the United States and to India showed increases, while those to Europe show a considerable decrease. Prices, on the whole, continued to rule low throughout the year, in some cases not covering the cost of production.



## Legal Reports.

**Pharmacy Act.** At Burnley, on December 19, Mr. Tom Herbert Hartley, chemist and druggist, 46 Hebrew Road, was summoned for selling carbolic acid on November 27 without affixing a poison label and his name and address. Mr. Hartley explained that such an error would not have occurred in ordinary times. His manager had died suddenly and he had been very hard worked. He was in the shop when the bottle was sold by a youth in his employ, and he (Mr. Hartley) was under the impression that the proper labels were affixed. Every precaution was taken to see that poisons are properly labelled, but unfortunately the name and address were omitted from the printed slip. A fine of 20s. was imposed.

**Banking Account Guarantee.**—In the Chancery Division on December 20, before Mr. Justice Sargant, the case was heard of *Morrison v. Barking Chemicals Co., Ltd.* The plaintiff was one of two co-sureties for the defendant company under a guarantee dated August 22, 1917, which was given to the London and South-Western Bank, Ltd., to secure, to the extent of 5,000*l.*, all liabilities of the defendant company on account current or otherwise. The plaintiff sought to compel the company to give him immediate relief or indemnity against any existing or apprehended liability to the bank under the guarantee. Mr. Justice Sargant dismissed the action, with costs.

**Glaxo Trade-mark.**—Judgment was given in the Banco Court, Melbourne, Australia, on August 19, by Mr. Justice Cussen, in a dispute relating to the use of a trade-mark and the manufacture of powdered milk and other products of milk. The plaintiffs were Joseph Nathan & Co., Ltd., carrying on business in Australia and New Zealand as milk-product manufacturers, and the defendants were the Bacehus Marsh Concentrated Milk Co., Ltd. Plaintiffs' case was that in 1910 it was arranged with a company, since wound up and whose place the defendant company had taken, to purchase plaintiffs' patents for the manufacture of powdered milk, plaintiffs retaining the right to sell the product known as "Glaxo," an infants' food. The patents had since expired. Plaintiffs now sought declarations that they were entitled to manufacture and import and sell powdered milk products in Australia; that defendants had no right to their goodwill in Australia, or to make or sell "Glaxo," or use the trade-mark "Glaxo." The defendant company counter-claimed that plaintiffs were not entitled to make, import, or sell powdered milk products, or "Glaxo," in the Commonwealth. The parties asked for the necessary declarations and injunctions to give effect to their opposing claims. Mr. Justice Cussen held that the plaintiffs were entitled to the trade-mark "Glaxo," and to import that article and sell it in Australia, and that defendants, as against plaintiffs, had the right of manufacture and sale of articles covered by the agreement. He granted declarations that the agreement did not operate to prevent the plaintiffs, after the expiration of the patents mentioned in the agreement, from importing into and selling in Australia products other than "dried milk," "milk powder," or "powdered milk," or colourable imitations thereof; that the plaintiffs were entitled to import and sell "Glaxo" so long as it was of the character hereto commonly put up, and that the defendant company had no right or title to use the trade-mark or name "Glaxo," and an injunction to restrain defendant company from using the trade-mark or any colourable imitation thereof. On the counter-claim, he ordered a similar declaration as to articles covered by the agreement, and an injunction to restrain the plaintiffs from manufacturing or offering for sale within the Commonwealth "dried milk," "milk powder," or "powdered milk," or other products to the extent provided in the first declaration. The question whether damages should be given plaintiffs for defendants' action in putting "Glaxo" on the market to assert its rights, and discussion of the terms of the judgment, were postponed to a day to be fixed.

## New Companies and Company News.

**P.C.** means Private Company and R.O. Registered Office.

**BRITISH COLLOIDS, LTD. (P.C.).**—Capital 350,000*l.* Objects: To carry on business as chemists, druggists, dyers, salters, oil and colour men, manufacturers of and dealers in malt, food substances, meat extracts, rubber, dyes, soap, coal-tar products, and proprietary articles, etc. Agreement with Lewis Stroud. Solicitor: R. S. Middleton, 53 John Street, Sunderland.

**CASSON CHEMICAL CO., LTD. (P.C.).**—Capital 6,000*l.* Objects: To buy, sell, manufacture, refine, import, export, and deal in all kinds of oils and oleaginous and saponaceous substances, and to carry on the business of wholesale and retail chemists, druggists, dyers, salters, importers and manufacturers of and dealers in pharmaceutical, medicinal, toilet, photographic, chemical, surgical, and other preparations, apparatus and materials, etc. Solicitors: Mawby, Mawby & Morris, 7 Queen Street, London, E.C. 4.

**IDRIS & CO., LTD.**—The ordinary general meeting was held at the Midland Grand Hotel, St. Paneras, London, N.W., on December 23. Mr. T. H. W. Idris, J.P., presided, and was supported by Mr. E. K. Bishop, Mr. W. T. W. Idris, and Mr. W. H. W. Idris. Sir James Bradford was unable to attend owing to illness. The chairman then directed attention to the chief items in the annual report. He explained that a reduction of 1,016*l.* on the freehold and leasehold properties is due, mainly owing to the sale of timber on Cader Idris. This property is held on a lease of 999 years, said Mr. Idris, when he explained that the sinking fund provides for the writing-off of the value of the company's leaseholds and the buildings on the freehold properties. The capital employed in the branch businesses has been reduced by 4,243*l.* owing to the reduced stock in two of the departmental businesses brought about by war conditions. The large reduction of 21,137*l.* in the value of the stock-in-trade is due to the reduction in the stock of timber used for making cases for overseas trade. A larger deposit is obtained now on syphons and bottles, and this amount is deducted from the stock in the hands of customers. The increase of 18,141*l.* in the amount due from sundry debtors is due to increased prices, some large accounts since paid, increased deposits on packages, and increased sales of special beverages. The investments in war loans show an increase of 12,883*l.* The profit and loss account, which shows an increase over last year of 4,934*l.*, is satisfactory, considering the difficulties which have been encountered. Taking a fair view of the situation, Mr. Idris hoped that the coming year will show a favourable result. The explanation of the large amount of money held as an asset is that it consists of deposits for packages, and may have to be repaid at any time. In seconding the adoption of the report, Mr. Bishop said that, thanks to the united condition of the trade, they have been able during the past year to get deposits on empties. That had not only helped them financially, but had put the accounts on a much sounder basis. Shareholders must also remember that stocks had been depleted, and they would have to lay out a considerable sum in new motors, horses, vans, plant, and other things. A discussion followed on the motion for the adoption of the report, some of the shareholders being of opinion that no money should be put to the reserve fund until a dividend had been paid on the ordinary shares. An amendment was put to the meeting, but, no seconder coming forward, the report was carried. The retiring directors—Mr. T. H. W. Idris and Mr. W. H. W. Idris—offered themselves for re-election; and there was some discussion as to the desirableness of the two senior directors of the company retiring, but an amendment to the effect that the re-election be postponed was defeated. The retiring directors were then re-elected.

## More Tales of Oenophus.

### IX.—Warre-Tyme Recordes.

Ye Grete Warre being well-nigh over, ye Grande Vyzier wente about amonge ye Trybes of Ishmael styrrynge them uppe to a Sence of Dutye.

"See Ye," sayeth He, "Itte is inne Alle Mennes" Mouthes what We of Hyghe Estate have done to Wynne ye Warre. We renderd Fyrste Ayde to Ministeres of ye Croune, physicked Centurions, collected Thoryume, acqwyred Obecs, and have been rewarded by a Gratefull Countrie. Butte Ye, what have Ye done?"

And ye Commone People, havynge onlie Worked Tenne Tymes harder than Before and hadde as Rewarde Lower Prophets, Hyghere Tythes and Muche Bullynge, lookt shamefullie atte Eche Other, saynge Nothyng.

"Summon ye Scrybes," counselleth ye Grete Onne, "and beginne ye Construccione of Tryball Laves. There wille thus be Anne Hundrede Tryball Laves to dyverte ye Farmazootick Progenie of After-Yeres."

Soe ye Scrybes gotte busie and garnerd a Grete Harveste of Heroick Dedes atte ye Home Fronte.

And Onne of ye Moste Enthrallynge Volumes of Alle was that entytled "Howe We Dodged Itte."

Cavondo Tutus.



## Marriages.

**LYNE-CRITCHTON.**—At 1 Summerfield Place, Leith, on December 18, by the Rev. W. Swan, William Thomas Leonard Lyne, to Stewartina Duncan, youngest daughter of the late Alexander Crichton, chemist and druggist, Leith.

**THOMSON-MILLAR.**—At Dundee, on December 18, by the Rev. G. W. Smart, John M. Thomson, chemist and druggist, to Annie Kennedy, youngest daughter of the late Mr. W. Millar, Dundee.

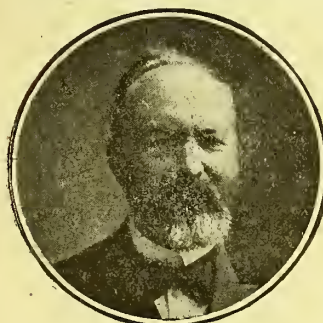
**YULE-MCMILLAN.**—At 6 Jedburgh Road, Dundee, on December 18, by the Rev. J. A. Aitken, D.D., Captain G. L. Yule, M.C., Black Watch, to Margaret Gellatly, third daughter of the late Mr. James McMillan, chemist, Dundee.

## Deaths.

**BAMPTON.**—At 86 Walsgrave Road, Coventry, on December 16, Mr. George Frederick Bampton, chemist and druggist, aged seventy-nine.

**BARNETT.**—At Port Elizabeth, South Africa, recently, of influenza and pneumonia, Mr. Richard Barnett, chemist and druggist, aged thirty-two. Mr. Barnett served his apprenticeship with Mr. John Simon, chemist and druggist, Chester, and after gaining further experience passed the Qualifying examination in 1908. He had of late held a position in the laboratory of Lennon, Ltd., Port Elizabeth.

**BAXTER.**—As briefly reported in our last issue (p. 41), Sir William James Baxter, J.P., D.L., Ph.C., ex-President



SIR W. J. BAXTER, PH.C.

of the Pharmaceutical Society of Ireland, died at Coleraine, co. Londonderry, on December 19, aged seventy-two. Sir William Baxter was born at Tattykeel, Cookstown, co. Tyrone, and was educated at Ballymena Academy and Carmichael College, Dublin. At the College he was first in materia medica and chemistry. After being registered as a pharmaceutical chemist in 1884, he opened a business at Coleraine. The business, which grew to large proportions and included a wholesale department, was managed by him until his death; and he was also a director of Baxter, Ltd., chemists, Ballymoney. In 1889 he was co-opted a member of the Council of the Pharmaceutical Society of Ireland. In 1907 he was appointed Vice-President of the Society, and from 1910 to 1913 he filled the office of President. Last year he was re-elected to the Council. Sir William Baxter took a very prominent part in public affairs. He was the last Chairman of the Coleraine Town Commissioners, and the first Chairman of the Coleraine Urban Council. He was a Vice-President of the Congress of Health, Dublin, 1898, Chairman of the Derry City and County Liberal Association, President of the Coleraine Young Men's Institute and of the Coleraine Savings Bank, and was connected with various other organisations. He was appointed a Justice of the Peace for the County of Londonderry in 1900. In 1910 he unsuccessfully contested North Antrim as a Liberal. He was Deputy-Lieutenant of the County Derry, and was knighted in 1907 on the recommendation of Lord Aberdeen, then Lord-Lieutenant of Ireland. Sir William was seized with paralysis on December 14 after voting in the North Derry election, and never rallied. He is survived by a widow and three children.

**COOKE.**—At Boston, Lines, on December 18, the wife of Mr. Charles F. Cooke, chemist and druggist.

**DRAKE.**—At Scarborough, on December 15, Mr. Henry Charles Drake, chemist and druggist, 10 Oak Road, aged fifty-four. Death was due to cerebral hæmorrhage occasioned by a fall. Mr. Drake was Senior Warden of the Old Globe Lodge of Freemasons, and an active member of the local Volunteer Force.

**EASTERBROOK.**—At 60 Yeo Street, Yeoville, Transvaal, on October 28, the wife of Mr. W. Easterbrook (a past-President of the Pharmaceutical Society of the Transvaal).

**FITZHUGH.**—At Clumber Crescent, The Park, Nottingham, on December 20, Mr. Richard FitzHugh, J.P., Ph.C., aged eighty-five. Mr. FitzHugh passed the Major examination in 1864, and shortly afterwards established himself in business at Nottingham. From the first he took a leading part in pharmaceutical affairs. He was a member of the Nottingham Pharmaceutical Association from its inception in 1863, was its first Secretary, and was President for about forty-five years. He was first elected to the office in 1873, and from 1876 to 1901 continued President without a break. In the latter year he was presented with a silver salver as a testimonial (*C. & D.*, I., 1901, p. 919). In other public matters in the district Mr. FitzHugh took a prominent place. He was Mayor of Nottingham in 1891, and for many years filled other offices with distinction. Last May he was presented with his portrait and an illuminated address by the trustees and other officials of the Nottingham Savings Bank, in which he had long taken an interest. His only son, who was a medical man, died in 1900.

**HARROP.**—At 18 Lyndhurst Drive, Leyton, on December 19, Mr. George Harrop, of the Plaissetty Manufacturing Co. and London Thorium Co.

**HOWIE.**—The funeral of the late Mr. William Lamond Howie, Ph.C., who died on December 16 (*C. & D.*, December 21, p. 41), took place at Marylebone Cemetery, East Finchley, London, N., on December 21, when a numerous company of friends assembled to pay the last tribute of respect. Among those present were Mr. C. A. Hill (chairman, The British Drug Houses, Ltd.), Mr. Roger M. Harvey, Mr. W. A. H. Naylor (who represented the British Pharmaceutical Conference), Mr. G. Rogerson, Mr. W. S. Glyn-Jones, Secretary of the Pharmaceutical Society of Great Britain, Mr. Thomas Meares, Mr. W. J. Goldsworthy, and several members of the office and warehouse staffs of The British Drug Houses, Ltd.

**NUTMAN.**—At Walsall, on November 24, suddenly, Mr. George Robert Nutman, chemist and druggist, 23 Bridge-man Street, aged seventy-four. Mr. Nutman was in business before August 1, 1868.

**PICKLES.**—At Avonmouth, on December 5, Mr. Rowland Walter Pickles, M.S.C.I., chemist and druggist. Mr. Pickles served his apprenticeship in Harrogate, and gained further experience with Brady & Martin, Ltd., Newcastle-on-Tyne, and Rimmington & Son, Ltd., Bradford. He passed the Qualifying examination in 1913. Having been rejected for military service, he took up a position under the Ministry of Munitions, and while engaged at Gretna was instrumental in saving lives in an accident in which he himself was injured. He was transferred later to Avonmouth. The funeral took place at Harrogate on December 10.

**SHORROCK.**—Recently, Miss Clara Shorroock, third daughter of the late Mr. Ralph Shorroock, J.P., chemist and druggist, Darwen. The funeral took place at Darwen on December 19.

### Died on Service.

**BARTON.**—At Sofia, Bulgaria, on December 10, of influenza, Sergeant H. R. Barton. Sergeant Barton, who was the son of Mr. T. J. Barton, chemist and druggist, Street, Somersetshire, had been continuously on active service in the Balkans for upwards of three years.

**BOOTH.**—At Constantinople, on December 14, of influenza, Lieutenant Charles Booth, Royal Navy. Lieutenant Booth was a son of the late Mr. Edwin Booth, chemist and druggist, Crewe.

**STEWART.**—Sergeant William Stewart, R.A.M.C., was killed in action on November 9. Prior to joining the Army Sergeant Stewart was an apprentice with William Dobbin & Co., Ltd., chemists, North Street, Belfast.

## Personalities.

**COUNCILLOR F. BASCOMBE, F.I.C., Ph.C.,** has been elected Chairman of the Finance Committee of the Lambeth Borough Council.

**SIR WILLIAM WHITLA, M.D., Ph.C.,** has been returned as Member of Parliament for Belfast University. He polled 1,487 votes, against 118 for his opponent.

**LIEUTENANT C. R. ALDERSON,** attached R.A.F., has received the Military Cross. Lieutenant Alderson served his apprenticeship in pharmacy with Mr. Thomas Edmondson, chemist and druggist, Penrith.

**MAJOR A. F. HOLLINGWORTH, R.F.A.,** son of Mr. F. W. Hollingworth, Ph.C. (Boots, Ltd., Bond Street, Leeds), has been awarded a bar to the Military Cross. Major Hollingworth also holds the French Croix de Guerre with Palm (*C. & D.*, 1917, p. 605).



## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," December 4, 1918.)

- "TARTOLA" for dyes (1 and 4). By Prescott & Co., 1 Oswald Street, Hulme, Manchester. 385,430/1. (Associated.)
- "ARBOLEUM" for wood preservatives and stains (1). By D. C. Currie, 60 West George Street, Glasgow. 385,530.
- "CHLOR-SAN" for chemicals (2) and medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 384,802/3. (Associated.)
- "DULSTEV" for food substances (42). By Clayton & Jowett, Ltd., 5 Concert Street, Liverpool. 385,285.
- "CRIS" for edible oils (42). By Sterns, Ltd., 16 Finsbury Square, E.C. 2. 385,395.
- "EMPREX" for food substances (42). By Becker, Shillan & Co., 40 Eastcheap, London, E.C. 3. 385,442.
- "CHASTE" for all goods (42). By S. D. Simond & Co., Ltd., 10 Monument Street, E.C. 3. 385,657.
- "DROXIDE" for all goods (47). By W. F. Kershaw, 1-3 Carisbrook Place, Walton, Liverpool. 385,381.
- "LA VOGUE" with boat-shaped device ("La Vogue" disclaimed); for perfumery, etc. (48). By Emile, Ltd., 24-25 Conduit Street, London, W. 1. 382,854.
- "NINOS" for toilet articles (48). By D. W. S. Parke, 23 Gladstone Street, Clonmel, Ireland. 384,107.
- "KRIS" with device of crossed sword and chopper; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 384,875. (Associated.)

(From "The Trade-marks Journal," December 11, 1918.)

- "FILMOLENE" for all goods (1 and 4). By W. & F. Walker, Ltd., Colonial House, Water Street, Liverpool. 385,407/8. (Associated.)
- "ALTOID" BRAND PEPPERMINT LOZENGES" for peppermint lozenges (3). By Smith & Co., 132 Borough High Street, S.E. 1. 384,489.
- "SALVITE" for chemicals (1). By A. W. Caven, 7 Lower Free Lane, Leicester. 385,276.
- "PHARMASOL" for medicinal chemicals (3). By J. G. Gordon and E. E. Gumpert, 48 Northcote Street, London, W. 1. 385,097.
- "SUPREX" over facsimile signature "John J. Forbes" ("Suprex" disclaimed); for medicinal chemicals (3). By J. J. Forbes, 7 Scott Street, Perth, N.B. 385,177.
- "GUWHYLI" and device; for medicinal chemicals (3). By Naamlooze Vennootschap Verkoophuis D. Heystek, 37 Hoofdsteege, Rotterdam. 385,358.
- "TURPSAP" for turpentine substitutes (4). By W. J. Robson, 108 Hamilton House, Bishopsgate, E.C. 2. 384,380. (Associated.)
- "GORGON" for scientific instruments, etc. (8). By The Whitecross Co., Ltd., Milner Street, Warrington. 385,362. (Associated.)
- "SANTOBAN" for surgical goods, etc. (11). By W. Lee, 36-38 Haymerle Road, Peckham, S.E. 15. 385,853.
- "IDEA" for flavouring essences (42). By C. W. Field, Ltd., 92 Wood Street, Liverpool. 385,834.
- "MAZADENTA" for tooth-powder (48). By R. E. Fennell, The Tower, Tower Gardens, New Brighton. 384,783.
- "CLYTIE" for perfumery, etc. (48). By A. Mortimer, St. James' Pharmacy, Leeds Road, Harrogate. 384,986.
- "VELVADOME" for compressed face-powder (48). By The Standard Tablet Co., Ltd., Hove. 385,279.
- "PERGOLA" for perfumery, etc. (48). By C. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 385,559.

(From "The Trade-marks Journal," December 18, 1918.)

- "COLMONITE" for chemical coal-savers (1). By W. G. McCullagh, 29 Castle Garth, Newcastle-on-Tyne. 385,914.
- "THE GENUINE SPARKS HEAD POWDER" with electric spark device; for head powders (3). By A. J. Goldthorp, 33 Dinorwic Road, Southport. 385,824.
- "KUBRONA BRAND A MECHANICAL PREPARATION FOR COUGHS" for a cough medicine (3). "KUPINOL BRAND A MEDICINAL PREPARATION FOR HEAD-ACHE" for a headache medicine (3). By W. H. Thomas, 62 Park Street, Treforest, Glam. 385,582/3.
- "GEM SUGAR SUBSTITUTE FINEST SWEETENER" with star device for a sugar substitute (42). By S. & W. Berisford, Ltd., 20-22 Withy Grove, Manchester. 384,594. (Associated.)
- "SACCACIEN" for sweetening-substances (42). By American Commerce Co., Ltd., 19 St. Bride Street, E.C. 4. 385,913.
- "MINTELE" for mineral waters, etc. (44). By A. J. Caley & Son, Ltd., Fleur-de-Lys Works, Chapel Field, Norwich. 386,037.
- "TOILERS" under picture of three miners; "MENTOR" under picture of man in cap and gown; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 384,754, 386,021.
- "NEMOLIN" for perfumery, etc. (48). By Saltrates, Ltd., 214 Great Portland Street, W. 1. 385,912. (Associated.)
- "BITUVAR" for polishes, etc. (50). By J. C. Bottomley, Elland Road, Brighouse, Yorks. 383,888.
- "ETONA MADE IN SCOTLAND" and device of sword and scales ("Etona" disclaimed); for hair combs made in Scotland (50). By The North British Rubber Co., Ltd., Fountainbridge, Edinburgh. 385,331. (Associated.)

MR. GEO. C. N. PIESSE is retiring from Piesse & Lubin, perfumers, 28 South Molton Street, London, W., at the end of the year. The change will not affect the conduct of the business.

## Trade Notes.

TELEPHONE NUMBER.—Goodall, Backhouse & Co., Leeds, inform us that their telephone numbers are now 20435-8 (four lines), and not as given in the *C. & D. Diary*, 1919. Will subscribers please make the correction in their copies?

TURNER'S TABLETS.—The Turner Chemical Manufacturing Co., Broad Street House, London, E.C. 2, are developing the wholesale business in tablets and pills. The company's advertisement in this number indicates some popular lines for which quotations are invited from chemists.

BUSINESS PUSH.—Genatosan, Ltd., 12 Chenies Street, London, W.C. 1, preach a little homily on the big business push which is about to commence now that the war is concluding. Genatosan, Ltd., ask their readers to warn off the croakers, who can never see good in the doings of their own country.

DAISY POWDERS.—Our readers will have noticed that supplies of Daisy Powder now obtainable are made from a new formula. It has apparently been decided to replace acetanilide by some other headache-curing drug, and Daisy, Ltd., assure us that the new formula is a real advance upon the powder which made the reputation of Daisy. An advertisement in this issue states that the proprietors have begun an advertising campaign, and chemists are urged to see that their stocks are ample to meet the demands of the public.

ABBE REFRACTOMETER.—Bellingham & Stanley, Ltd., 71 Hornsey Rise, London, N. 19, send us a circular which sets forth the chief advantages of the Abbe refractometer the company makes compared with the German instruments which were offered in this country before the war. It is claimed that the increased efficiency and convenience in this new type result in a saving of 50 per cent. in the time required for determining refractive indices and dispersions. A copy of the circular will be sent on application.

NEW YEAR GREETINGS.—This issue contains special New Year greeting advertisements from the following houses:

S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C.

Mav, Roberts & Co., Ltd., 7-13 Clerkenwell Road, London, E.C. 1.

Wright, Layman & Umney, Ltd., Southwark, London, S.E. 1.

Westminster College of Pharmacy, 190 Clapham Road, London, S.W. 9.

Laiss Brothers & Co., Ltd., Grange Works, 174-176 Grange Road, Brompton, London, S.E. 1.

WINTER WANTS.—Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 4, call our attention to several of their specialties which are in demand at this season of the year. Capsoterm is a new form of capsaicin-impregnated wool, which is claimed to possess several advantages over the usual form. Capsoterm is a sheet of cotton-wool with gauze on the front and an impermeable backing. It is divided into squares by stitching, which prevents the wool sagging and also forms a convenient means of detaching a portion of the sheet when the space to be covered is smaller. A bandage is enclosed in the package, and is intended to be used for fixing the capsoterm in position. Balmosa is a solid preparation containing methyl salicylates and camphor. It is adapted for the treatment of rheumatic affections. The corresponding preparation in liquid form is known as "Lin. Analgesic." Thymotussin, another winter medicament, is a cough-mixture in syrup form. It is quite pleasant to the taste, and would be taken readily by children as a remedy for whooping-cough. Finally, as a poultice material for pneumonia and other chest-affections, there is Pulticine, which spread on a pad of linen and covered with flannel makes an improved poultice.

## Information Department.

### INFORMATION WANTED.

- |  |                              |
|--|------------------------------|
| 252/31. "Norode" rat exterminator                              | 258/47. "Granville" douche   |
| 258/57. Amber bottle jars, suitable for malt extract, supplies | 252/28. "Valerianettes"      |
|  | 252/29. Lactocroline tablets |

### INFORMATION SUPPLIED

- |   |                              |
|---|------------------------------|
| Argyrol, 248/60                             | Bow's liniment, 252/100      |
| Asbestos filters (similar to Scitz), 242/14 | Brown paper, 249/200         |
| Atkins's filter, 252/26                     | Browning's semprolin, 251/25 |
| Bates' salve, 239/12                        | Cacao butter, 253/12         |
|   | Chinosol, 251/24             |



## Observations and Reflections.

By Xrayser II.

### "A Merry Christmas!"—

the time-honoured form of greeting at this season—can once more be used without reserve or the suggestion of irony. The wounds of war are not, indeed, yet healed, but even injuries so deep leave the healthy organism such a reserve of strength as is an assurance of speedy recovery, and a buoyancy of spirit which reacts to every favourable stimulus. Already we are experiencing a feeling akin to that of convalescence after a painful illness, than which life has few keener pleasures. We may, too, with reasonable confidence look forward to a new year happy not only in comparison with those we have recently gone through, but in itself, if only we have the wit to make it so. To pharmacists one of the chief objects to be pursued in the new year should be an improvement in our position as State dispensers. We have been promised, almost *ad nauseam*, a radical revision of terms when the war is over, and virtually that time has now come. It is at least near enough to justify—nay, to demand—an insistence from us on the redemption of these promises, and no time should be lost, no effort spared, to bring home to the Council the fact that upon its action in this matter depends not only our continuance in the service, but our loyalty to the Society. We are not going into this business with "tied hands" again. Mr. Glyn-Jones may be thanked for that phrase; it suggests slavery, and we have had enough of it. We remember, too, who tied our hands, and we look to the same body to untie them now.

### The Term "A Code of Ethics"

is a misnomer applied to such a scheme as Mr. Currie desires to see included in our by-laws, and it is obvious that no such scheme, embracing pharmacy as a whole, could legally be imposed by the Society. Possibly a code of ethics for its own members, the breach of which should entail expulsion, is within its power; indeed, the Charter seems to make tacit provision for it, but that is a very different matter. And a code is a set of rules prescribing conduct, of which Mr. Currie seems to have given no hint. Clearly the desirability or otherwise of such a code depends upon its character. It would be interesting to know what sort of code Mr. Currie contemplates; it might not be a bad thing, but before either welcoming or deprecating it we must know more about it. Not that it is likely to be brought into being; the Society already has its hands full enough of schemes it can't bring to birth.

### The Attitude of the Bradford Association

towards the Council surely borders on the disrespectful. It may, no doubt, have more important matters than the proceedings in Council to discuss, but it is scarcely polite to say so. The assumption that all members with any interest in their craft read the reports of the Council in the press may be thought to take off some of the sting of this rebuff, but even that, taken in connection with the cool reception given to the addresses of Dr. Addison and Mr. Glyn-Jones, seems to indicate that, in the opinion of the association, the bare reading of the reports is as much as can in reason be expected of anybody. Considering what the official reports are, I am disposed to agree; and, after all, they don't as a rule afford much matter for discussion.

### Mr. Humphrey's Suggestion

of co-operative dispensaries run by pharmacists as a defence against clinics and public dispensaries does not at first sight look very feasible. Could we possibly compete with these institutions, either in respect of economy or of convenience? They certainly would not secure one advantage to the patient on which Mr. Humphrey lays special stress—that of having prescriptions dispensed on the spot—and if the clinics were run by doctors in their own interest my experience of a

somewhat similar experiment by certain doctors in a Northern town convinces me that we should be hopelessly handicapped in the matter of price, to say nothing of anything else. And as regards Insurance dispensing, how could we hope that it would be as remunerative even as it is now with these dispensaries to keep up, in addition to all our present establishment charges? We should lose, too, the advantage of the extra custom the dispensing now brings to our shop. But the fatal objection to embarking on such an enterprise is that if public dispensaries are established it will be by Government, and the whole business will be settled over our heads. I do not suppose, however, that Mr. Humphrey would have us take any overt steps towards the realisation of his idea at present, and we ought to thank him for bidding us be on the alert for what may happen.

### The Effect of the Armistice

on prices, whether of food, drugs, or general commodities, cannot as yet be anticipated. Although a good many things are already "easier," others show no sign of becoming so at present, and some are even dearer than they have been during the worst period of the war. Judging from such reports as I have seen, we must not expect much reduction yet, though there will be less scarcity of many of the more important substances, owing, among other things, to increased facilities of transport. I have heard complaints, whether well founded or not I am not prepared to say, but I believe that, upon the whole, our business, both in the wholesale and the retail branch, has been honourably distinguished by a comparative absence of profiteering and of selfish tactics, and my opinion is that, in spite of possible exceptions here and there, this is true, and will continue to be true during the no doubt trying period immediately before us. Retailers will do well to remember that the wholesaler has his difficulties as well as they. The motto "Every man for myself," humorously attributed to the Welshman, is one we are all apt enough to adopt in reality, though we should, without conscious hypocrisy, disavow it. Mutual consideration is necessary to that good understanding between dealer and customer which is the oil of the business machine.

### "M.I.7.D."

will to most people be a mystic formula of obscure meaning, but it stands for a very real thing of proved utility during the last three years. It indicates a Department of the War Office whose function it is to select and, publish, with suitable comments, extracts from foreign newspapers for the information and guidance of the General Staff and important Government Departments on all matters of importance from the military and economic points of view. Started in a very modest way in 1915 as a "Daily Review of the Foreign Press," the work has since developed into a series of publications of the highest value; nominally these are Supplements to the Review, each of which deals with a special class of subjects or a particular area. Altogether there are nine of them, named respectively "Enemy Press Supplement," "Allied Press Supplement," "Neutral Press Supplement," "Blockade and Supply Supplement," "Food Supplement," "Economic Supplement," "Reconstruction Supplement," "Technical Supplement," "Medical Supplement." The last four are published for sale, the others are distributed among the various Services and to such newspapers as desire to have them. When it is understood that more than 4,000 foreign papers have been regularly laid under contribution, the most important information in them reproduced in translation, arranged, summarised, and commented upon by a competent staff, under the direction of editors selected from the higher branches of the Civil Service, the Universities, and the newspaper press, it will be seen that these publications cannot fail to be of the utmost value, and it is satisfactory to know that, although the "Daily Review" from which the rest sprang has been discontinued, the service itself is to be retained, probably as a department of the Foreign Office, and ultimately in the form of an "Economic Review" which will combine the leading features of all the existing Supplements.



# SANITAS

## DISINFECTANTS

(Fluids, Powder, and Soaps).

Also

- "Sanitas-Bactox" Homogeneous Phenoloid Disinfectant;  
18/20 co-efficient.  
"Sanitas Okol" Emulsified Phenoloid Disinfectant;  
18/20 co-efficient.  
"Sanitas Sypol" (Improved Lysol).  
"Sanitas Sulphur Candles."  
"Sanitas Formio Sulphugators."  
"Sanitas Formigators."  
"Sanitas Drain Testers."  
"Sanitas Polishes."  
"Sanitas Distemper" for walls.  
"Sanitas Creoleum" (wood preserver).  
Peroxide of Hydrogen (Kingzett's Preserved).

Kingzett's  
Patent

THE "SANITAS" CO., Ltd.,

Locksley Street, Limehouse, LONDON, E. 14.

## METHYLATED SPIRIT.

M.M. Restrictions are now withdrawn.

JAMES BURROUGH, LTD.

D.1. Cale Distillery, Hutton Road, LAMBETH, S.E. 11.

## Essential Oils AND Aromatic Chemicals

W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.

## Information.

By this announcement I notify that on the 1st of January, 1919, I shall retire from connection with the firm of PIESSE & LUBIN, Perfumery Manufacturers. This fact will in no way change the general conduct of that business, except in so far as I am personally concerned, and I hope that friends will continue their patronage, which I am confident will meet with such response as has heretofore been gratefully vouchsafed to them.

GEO. C. N. PIESSE.

8 Blomfield Court,  
Maida Vale, W. 9.

## PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London, E.C. 4.

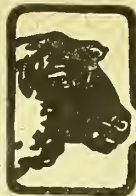
REGINALD W. BARKER.

## FENNINGS' 50 YEARS' REPUTATION

## Children's Powders

ADVERTISED EVERYWHERE. READY SALES.

ALFRED FENNINGS, COWES, I.W.



## LUDDINGTON'S Lambing, &c., OILS.

Best-known house for Veterinary Preparations,  
Sheep Dips, Seed Dressings.

Tomlinson & Hayward, Ltd.,  
LINCOLN.

*Sugar is not required—if*

*Fletcher's Concentrated Liquors*

*are used in place of the corresponding Syrups.*

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

## Editorial Articles.

### The Wonderful Year.

WE are too near the events of the year that is just closing to appreciate them in their true perspective. Historians will doubtless refer to 1918 as the most wonderful year in the history of the world. It marked the culmination of the gigantic efforts of the Allies and the United States and the defeat of the powers of darkness, which had planned to enslave the human race in the blackness of barbarism. The infamous combination of which Germany formed the chief agent began to crumble away with the defection of Bulgaria on September 29; this was followed by the capitulation of Turkey on October 30 and of Austria-Hungary on November 4. Germany, hopelessly beaten on the Western Front, hurriedly sought an armistice, which was granted by the Allies on November 11 on terms which left no doubt as to the side with which victory rests. The four and a quarter years' war has left its mark on all the belligerents, which will not be obliterated within the memory of those living. The loss of young life has been prodigious, and it is the absence of this element which will make the future progress of the race difficult. It will require all the efforts of statesmen to ease future difficulties, and it is this task which the new Parliament will have to face in the New Year. Military obligations have pressed heavily on pharmacy, but our craft has not been behind any other trade or profession in the sacrifices that have been made for the common good. It has been with the greatest difficulty that a dispensing service has been maintained in some districts; but on the whole it must be added that the Military Tribunals have tried to carry out fairly the duties with which they have been entrusted. Where the tribunals have erred, it has been through lack of knowledge of the legal requirements of the sale of poisons and the service which chemists render to the public. These errors have disclosed a weakness of the trade, in that the public has only a hazy idea of the duties of a chemist. Personal respect comes from long residence in a district, but there is room for considerable improvement in the general appreciation of the protection which the carefulness of the chemist affords. The numerous regulations made under the Defence of the Realm Act with which chemists have had to contend had reached the culminating point at the time of the armistice. Since then relaxation has been afforded in several directions, in cases of pharmaceutical solvents and ordinary chemicals employed both in munitions and in pharmacy. The Army Council Order regarding the supply of drugs to troops has been increased in stringency during the year, but, as has been pointed out before, the lack of knowledge shown in "departmental legislation" leaves much to be desired. It emphasises the necessity of putting back these departments to their proper sphere of administration as soon as possible, and leaving the making of laws to Parliament. The Cocaine and Opium Regulation has been tinkered in several directions and



should not be allowed to take a permanent place until it has been approved by the representatives of the people. The recrudescence of the drug-habit scare, which is occupying public attention, shows that chemists exercise scrupulous care in carrying out the Pharmacy Act regulations for the sale of poisons and also the extra requirements of Regulation 40B. The treatment of pharmacists by the Army has not improved. Promises there have been that qualified chemists shall be employed in military dispensing with, "it is hoped," the rank of sergeant. Higher rank is "under consideration," as it has been for the past four years. Our own opinion is that nothing further will be done in the matter. The legislation during the year has extended to several important subjects. The extension of the principle of rebate of duty on spirit used in medicines has emphasised the injustice of taxing the ailing, and should lead to a demand for a rebate of the whole of the duty paid on spirit used in pharmacy. The new Education Act will have a bearing on pharmacy, and it is hoped that our leaders will exercise a little imaginative foresight in adapting it to the training of pharmaceutical aspirants. The length of the war has given time for planning the future of the chemical industry in this country. It is not unlikely that the fine chemical manufactures which have been begun will continue. A protective measure has been promised to the dye makers which can hardly be denied to those who utilise the by-products in making pharmaceutical chemicals. Saccharin has been made here on a large scale, and the situation at present is that the Germans, who before the war supplied the British market, will not be allowed to compete again. The manufacture of salicylates and benzoates is among the other successes of British manufacturers. The amalgamation of the British Dyes, Ltd., and Levinstein & Co., Ltd., into one powerful Corporation almost assures the future of the British dye-making industry, especially in view of the fact that there are several other very enterprising businesses which are also specialising in dyes. This is the Jubilee year of the Pharmacy Act, and it is interesting to note that the extent of the changes that have taken place in the working of the Pharmaceutical Society has been unparalleled in recent times. A new President and Secretary of the Pharmaceutical Society, the admission of women to the Council, and the inauguration of a wider view on examination matters, have been some of the features. It is true that the last-named change has been forced on the Council by the Government, but when a fifty-year-old body begins to move the pace is apt to get warm. Justice must be done to those members of the craft who have sacrificed so much for their country. It is in this direction that the new by-laws, as yet unapproved by the members of the Society, tend in contradistinction to the narrowly conceived by-laws which were rushed through in May, but which the Privy Council refused to sanction. After-war problems as yet untackled include the organisation of a Whitley Council to represent the whole of the drug-trade. The Pharmaceutical Society's officials are against the scheme, apparently on the ground that their power would be weakened. It is not unlikely, however, that the Government will see that the Society does not develop the "stickiness" which the Minister of Reconstruction rather pointedly told them would not be tolerated. We are glad to record that this year the whole of the names of the enemy honorary and corresponding members of the Pharmaceutical Society have been removed, and we hope that no German or Austrian name will in future be honoured in this way until these nations have purged themselves of their unsocial habits. The rise in prices of all commodities has affected the drug-trade as much as any other trade. It has led to a demand for higher remuneration for services both from masters and assistants. A slight concession has been made by the National Health Insurance Commissioners to panel chemists, and the year closes with announcements of wages awards and grants of minimum wages. A scheme for fixing the retail price at the face values, which arose out of a correspondence in *THE CHEMIST AND DRUGGIST*, and the persistent advocacy of Mr. W. H. Saunders, resulted in the

formation of a Face Value Committee, which by agreement was merged in the Proprietary Articles Trade Association. Care must be taken that this does not lead to a shelving of the whole subject. The luxury tax proposals, which would have affected the sale of toilet articles, have been dropped, and it is unlikely that they will be revived in view of the difficulties which the French practice has disclosed in collecting an adequate revenue from luxuries. The Dental Committee which has been considering the steps to be taken to supply the public need for adequate dental assistance has not reported yet, but there is reason to believe that the rights of chemists to extract teeth, etc., will be adequately safeguarded. The British Pharmaceutical Conference was again held in London, but the proceedings were almost entirely formal. Mr. C. A. Hill, who has occupied the position of President during two very trying years, should be given an opportunity of exercising the full functions which appertain to that office. For the present he has been succeeded by Mr. Wm. Kirkby, M.Sc., Manchester, whose proximity to Liverpool, where the 1919 Conference will probably take place, will be a convenience. The venue of the Conference cannot, however, be settled for some time, owing to the advent of the trying time of reconstruction. The necessity for conserving the supplies of fats and oils caused the use of lard for pharmaceutical purposes to be prohibited. The General Medical Council issued a notice in the "London Gazette" which withdrew many preparations from the British Pharmacopœia, 1914, and in other cases gave permission to employ alternative substances. The devising of substitutes was a problem which the Pharmaceutical Society somewhat tardily undertook, but the Society's success as experts in pharmacy was not conspicuous. Altogether the year has been an exceptionally busy one for chemists, but it has been difficult to carry on owing to the shortage of staff and supplies and a period of excessive demand for drugs owing to the severe epidemics of influenza. The deaths in the ranks of pharmacy have been, unfortunately, numerous. The war has claimed its victims from the rank and file. The wholesale and manufacturing trades have suffered many losses by death, among them being Mr. R. Blenkinsop, Mr. T. Alex. Cook, Mr. Thos. Farries, Mr. E. Glover, Mr. W. L. Howie, Mr. F. H. Lescher, Mr. C. T. Maw, Mr. J. Morgan Richards, Mr. Thos. Tyrer, and Mr. G. S. Woolley. Among representative men in the retail who have passed away are Lieut.-Colonel Clifford Probyn, Mr. Jas. Kirkpatrick, and Mr. A. Mumford. Irish pharmacy has lost Mr. W. Hayes, Mr. J. H. Bowden, Mr. Jas. Hogg, and Mr. W. Jamison, all representing the best phases of practice in the Sister Island. Professor J. P. Remington, Philadelphia, who died on the first day of the year, is an international loss. We trust that the coming year of peace and reconstruction will bring to all our readers a prosperity and happiness which will be some reward for the severe trials which the war has entailed. We hope that a bright future awaits the drug-trade in a new world reconstructed on the principles of justice to all classes.

### United States Dispensatory.

It is a curious fact, which we have mentioned before, that whereas dispensaries originated in this country they have long ceased to be published but are still popular in the United States. Quincey's "English Dispensatory," probably the earliest of the type, enjoyed a popularity extending over about seventy years. Duncan's "Edinburgh New Dispensatory" and Thomson's "London Dispensatory" were much in vogue in the earlier part of the nineteenth century among both doctors and chemists. It was these books that Dr. Geo. B. Wood had in mind when in 1833 he wrote the first edition of "The Dispensatory of the United States"; and in the preface to that volume acknowledgment is made to the British examples. The need for a work specially adapted to American pharmacy being given as the reason for the publication. Dr. Wood died in Philadelphia on March 30, 1879, at the advanced age of eighty-two, but before his death had



been engaged with his nephew, Horatio C. Wood, in the preparation of the fourteenth edition. The twentieth edition has been published this year (J. B. Lippincott Co., 50s.). The new edition has been revised in accordance with the ninth edition of the United States Pharmacopœia and the British Pharmacopœia, 1914. The revisers were the late Professor Joseph P. Remington (this was practically his last work for pharmacy), Dr. Horatio C. Wood (son of the reviser of the same name who was first engaged in preparing the fourteenth edition), Dr. Samuel P. Sadtler, Dr. Charles H. Lalvall, Dr. Henry Kraemer, and Dr. John F. Anderson. Each of these experts has taken special portions of the revision work, this being the only satisfactory way of dealing with a book which contains over 2,000 pages. In avoirdupois the work is probably first among books of its kind, and the distinctive binding in khaki-coloured cloth marks the fact that it was produced during the period of the Great War in which the United States rendered such great assistance to the European Allies. After an introductory glossary of medical terms and an index of diseases, a very valuable digest of the U.S. Food and Drugs Act is given. This occupies about fifty pages. The Act is given in full with abstracts of the regulations and decisions of the Food Inspection Department. The Harrison Narcotic Act, 1914—upon which the British Cocaine and Opium Regulation was probably founded—is given in full with the regulations issued by the Treasury Department up to April 10, 1917. These features of the Dispensatory are indexed separately. The Dispensatory proper is divided into three parts: Part I., occupying 1,220 pages, deals with the official remedies of the United States and British Pharmacopœias; Part II., 450 pages, treats of non-official drugs; and Part III., occupying 168 pages, contains particulars regarding tests and test solutions, weights and measures, prescribing medicines, and an abstract of the National Formulary. In a work of this size and character it is perhaps to be expected that perfection has not been reached, and here and there one finds evidence that the most has not been made of recent published work on materia medica. We naturally turn to drugs upon which research has been concentrated of late years and find reason for disappointment that the work contains blemishes. Ergot is rather a test subject. Ergotoxine was discovered by Barger and Carr and not by Barger and Walpole as stated on p. 425; a little further the chemical name of tyramine is wrongly given, it should be para-hydroxy-phenyl-ethylamine. Again, the formula for ergotoxine was established by Barger and Carr ("Trans. Chemical Society," 1907, 91, 337) not by Barger and Ewins. In the article on ipecacuanha (p. 597) the alkaloid which Lloyd reported in 1914 is kryptonine not hyptonine. The formula for emetine,  $C_{30}H_{44}O_5N_2$ , attributed to Kunz-Krause is Paul and Cownley's, Kunz-Krause's is  $C_{30}H_{44}O_5N_2$ . Windaus and Hermanns (not Herman) merely accepted ("Ber.," 1914, 47, 1470) the formula  $C_{30}H_{42}O_5N_2$  proposed by Hesse in 1898. Hesse in 1914 accepted Kunz-Krause's formula  $C_{30}H_{44}O_5N_2$ , and did not recognise any relation between emetine and cephaline. Carr and Pyman showed that emetine is the methyl (not the oxy-methyl) ether of cephaline. It is not a fact that Hesse's formula for cephaline is in harmony with his formula for emetine. The monograph on pilocarpine (p. 857) is very much out of date. The alleged synthesis of pilocarpine by Hardy and Calmels, and many of the results of these workers were discredited by Jowett in 1900. There are, so far as we can see, no references at all to the work of Jowett and Pinner which led to the present accepted formula for the alkaloid. The crystalline variety of sodium glycerophosphate (p. 1027) is not made by treating glycerophosphoric acid with sodium hydroxide, Poulenc's process being the one used. The salt is readily soluble in water and does not, as stated, require the addition of an organic acid. We hope that in the next edition the authors will perfect their system of revision so as to make sure that no recent work is overlooked. At the same time our remarks should be taken not as a condemnation of the work as a whole, but as an indication of some defects which can be remedied in future editions.

## The Prevention of Anthrax.

THERE is some interest to chemists in the recently issued Report of the Departmental Committee on Anthrax, seeing that there are occasional scares of infection from shaving-brushes and other druggists' sundries of which camel-hair forms a part. The question is not so absorbing, however, as to those engaged in the worsted, woollen, and felt industries, to whom it is of vital importance. In a general review on the subject, the Report points out that in recent years there has been a large decrease in the fatalities from anthrax by the use, in the early stages of the disease, of anti-anthrax serum (such as that prepared by Professor Sclavo, of Sienna, and by the H. K. Mulford Co., Philadelphia), combined with the strict enforcement of "surgical rest" by means of splints, plaster of Paris, sandbags, etc. A careful and comprehensive investigation has shown that all crude materials from Central, Southern and Western Asia and from Egypt should be classed as dangerous, and that the danger of infection from anthrax in wool is not one that can be dealt with advantageously by means of regulations in factories or elsewhere. The only remedy, according to the findings of the Committee, is compulsory disinfection. A Sub-Committee, with special chemical and medical qualifications, was formed to deal with the disinfection problem, and the following method is recommended:

Stage 1.—*Preliminary treatment*, consisting of agitation (by means of rakes which thrust the wool through liquid as in scouring machinery) for twenty minutes in a solution of soap in water (preferably also containing a little alkali like sodium or potassium carbonate) at a temperature of  $102^{\circ}$ – $110^{\circ}$  F., assisted by squeezing through rollers.

Stage 2.—*Disinfecting treatment*, in which the material is agitated by similar means for twenty minutes in a 2.2½ per cent. solution of formaldehyde in water at a temperature of  $102^{\circ}$ – $105^{\circ}$  F., assisted by squeezing through rollers.

Stage 3.—*Drying* in a current of air heated to  $160^{\circ}$  F.

Stage 4.—Standing for a short time to ensure by the progressive action of the formaldehyde, with which the blood and other substances have been saturated, the complete destruction of any weakened spores which may in rare cases survive Stages 2 and 3.

This method is based on long and careful experimental work, and seeing that it is a highly technical process, in which chemical and other tests are constantly necessary, the Committee recommend that the disinfection be carried out in all cases under rigid scientific control. They suggest the establishment of central disinfecting stations, preferably at the ports through which the wool is exported to this country. Furthermore, the infected varieties of wool should themselves bear the cost of disinfection by means of a charge levied on the quantity disinfected, and the capital cost of disinfection should be provided by the State.

## Index to Volume XC.

THIS number completes Vol. XC. of THE CHEMIST AND DRUGGIST which covers the year 1918. The index and title-page will be issued separately, as has been the practice since the Government restrictions were imposed upon the use of paper. A copy of the index will be sent to any subscriber who desires one, and we should be glad if these would signify their wishes by a postcard to the Publisher, so that the index can be forwarded so soon as it is ready. Some copies will be reserved for subscribers abroad, but, as in the case of home readers, intimation should be sent by those who desire copies despatched to them.

## Coloured Methylated Spirit.

WITH the liberation of methylated spirit for general domestic use complaints are being received from the public regarding the colour. Under the new regulations, owing to the impossibility of obtaining supplies of naphtha suitable for the purpose the use of methyl violet was sanctioned as a denaturant. We have received complaints that the methyl violet makes a smoky flame, and



those chemists who have been in the habit of compounding soap liniment with methylated spirit get an undesirable colour in the product. The public need an explanation of the situation, and, with the assurance that the altered colour is a Government requirement, there is generally no difficulty in satisfying the most fastidious customer.

### Hospitals Dispensing and Selling Drugs.

WE have received information that a patient, on applying for medicine at a certain hospital, was invited to pay a small charge, and we are told that it is not the only hospital which has adopted this course. We hope it will not be forgotten that hospitals which do so technically keep open shop, and if the medicines contain poisons the hospitals come under the provisions of the Pharmacy Acts as well as under the Sale of Food and Drugs Acts and other statutes which apply to the retail vending of drugs.

### Traffic in Narcotics.

OUR Parliamentary correspondent informs us that Sir William Collins, who was one of the British Plenipotentiaries at the International Opium Congress at the Hague in 1911, is urging the Foreign Office to take up the question of putting the convention in force at the forthcoming Peace Congress. By this means, Sir William contends, a much more authoritative control would be exercised over the production and sale of opium and coca and their alkaloids. A correspondent of "The Times" calls attention to the fact that German chemical manufacturers, such as Merck of Darmstadt, were largely engaged in the nefarious traffic in morphine and cocaine with India and China which has wrought so much moral havoc among the natives of these countries. The Allies, through the Peace Congress, might be able to end the scandal now that the Germans, the principal offenders, are defeated. One way would be by preventing supplies of opium and coca or the crude alkaloids from being imported into Germany. This should not be so difficult as it appears at first sight, bearing in mind the fact that the Allies will probably be in charge of the German Customs Houses for many years, this course being necessary for the purpose of enforcing payment of the huge debt which Germany will be required to pay as reparation for the enormous damage that country has inflicted during the past four years.

### Demobilisation Guide.

AN advertisement by the Ministry of Labour in the daily papers is stated to be "a handy guide to employers and employed." So far the department has issued a lot of advice, but the results, at least so far as pharmacists are concerned, have been infinitesimal. "Pharmacists" now figure in the list of "Professions, etc.," and the heading quoted is followed by the words "The Pharmacists' Demobilisation Committee, Pharmaceutical Society, 17 Bloomsbury Square, W.C. 1." We have before hinted that the applications for pharmacists are already many more than the men it is intended to release before the general demobilisation, and we therefore advise chemists to use all other means in their power to obtain their assistants back. The various forms are obtainable from the local Employment Exchange. When demobilisation really commences it will be the men who have situations to go to who will be liberated first, but it is not clear what part, if any, the Pharmacists' Demobilisation Committee will take in this matter. It looks as though each application for release will have to travel through many departments, and when it is considered that several millions of applications will be received the wonder is that some simpler system has not been devised. Complaints are being made in the heavy chemical trade that this industry has been left out of the list of essential industries in connection with which "pivotal" men are to be released from the Forces in advance of the general demobilisation. The industry cannot get on without lime, and 1,750 men whom it was promised three weeks ago should be released for work in the limestone quarries have not so far been given up by the Army.

## Own Specialities.

ALMOST every retail chemist nowadays pushes some special line of his own, be it a cough-remedy, tonic-mixture, blood-purifier, saline, tooth powder or paste, hair-lotions, perfume, etc., etc. Having acquired considerable experience in the "running" of such while in situations in the three Kingdoms, and in business on my own account for upwards of thirty years, I suggest that the following hints may be of practical use to those who contemplate putting up their own lines:

**FORMULA.**—Decide upon a good formula for whatever you intend to introduce, and never deviate from your original formula.

**NAME.**—Fix upon a good impressive name. Thus, "Kofstopt" or such-like fancy name is much more attractive and easier to be remembered than "Jones's Celebrated Cough Remedy." If you anticipate a big demand, register the name. This only costs about a guinea, and is well worth the expenditure.

**LABEL.**—Draw up a suitable label and have printed in two or more colours on good-quality paper. Always adhere to the original wording.

**PRICE.**—Let the prices appear on the label thus, say, for Cough Remedy: "In bottles, (3 oz.) 1s. 3d., (8 oz.) 2s. 9d., and (16 oz.) 4s. 6d. By post, 1s. 7d., 3s. 2d., and 5s." These or whatever prices you adopt make it apparent to your customers the saving effected by purchasing the larger sizes.

**PACKING.**—Always use the same style of bottle—good quality green or white flint glass, flats or panelled flats, or whatever you may think most suitable. The use of printed cartons, distinctive name and prices on front, and list of your other specialities on back and sides, is to be recommended. Though this costs more than the use of coloured paper as a wrapper, it gives the article a much more effective appearance. Never omit one or more of your handbills in each carton.

**COST.**—The net cost of the preparation, *plus* bottles, corks, labels, and cartons, should not amount to much more than a third of the selling value, so as to allow for a fair expenditure for advertising in your local newspapers and magazines and the judicious distribution of handbills. I have experienced good results from putting a handbill inside every parcel I hand over the counter, as, well as including one with each invoice, account, receipt, or letter to each customer.

**RECORD OF TRANSACTIONS.**—I keep a book to show each year's sales, thus:

COUGH CURE.

		1s. 3d.	2s. 9d.	4s. 6d.
Jan. 1	Stock on hand ...	69	21	7
Mar. 3	Put up... ..	72	24	12
May 25	" ... ..	72	20	10
Sept. 2	" ... ..	72	24	9
Dec. 7	" ... ..	72	20	10
		377	109	48
Dec. 31	Stock on hand ...	53	18	8
	Sold during year ...	324	91	40

This enables me at end of each year to compare the sales with those of previous years; and if I find that any of my specialities showing a falling-off in demand, I allot a larger proportion of my advertising expenditure—handbills, local advertisements, etc.—to this one line till its sales get back to normal, or probably show an increase. This is a much more methodical method of recording sales than that of taking a note of each article as it is sold, which some chemists profess to do, though I fancy at a busy time this often escapes their memory.

I find it a considerable advantage to have printed on the labels and handbills the prices, as also prices including postages, as casual customers resident at a distance then know exactly how much cash to remit when ordering by post.—*Old Stager* (20/72).

**SOAP COMBINE IN DENMARK.**—The five largest soap-factories in Denmark have amalgamated under the name of the Danish Soap Industry. The capital totals 2,500,000kr., of which half has been put on the market at 108 per cent.



# Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

## Reports from Local Centres.

### ENGLAND.

**Lancashire.**—A meeting of the Lancashire Insurance Committee was held at Preston on December 14, when a discussion took place on a recommendation of the Finance Sub-Committee that prescription-forms stored at the Sessions House be destroyed. No prescription-forms have been destroyed since the inception of the National Insurance Act. The forms were stated to be in a very verminous condition. Mr. A. Peake, Chairman of the Pharmaceutical Committee, moved a vote of censure on the persons responsible for the condition of the scripts, and opposed the destruction, as the question of over-prescribing was not yet settled. The Chairman of the Finance Sub-Committee said that as evidence the scripts are absolutely worthless, and Mr. Peake's amendment was lost.

**Sheffield.**—A meeting of the Pharmaceutical Committee was held on December 16, Mr. Culverhouse presiding, when, in reply to a communication from the Insurance Committee, it was decided to protest against the responsibility for the proper signing of prescriptions being placed upon chemists, it being pointed out that the doctors' panel list varied during the year. A letter was received from the Insurance Committee refusing to agree to any alteration in the hours of dispensing for 1919. It was decided to ask that a half-yearly settlement be made of the errors in pricing, according to agreement. It was decided to ask for the release of chemists' assistants from the Army. The checking reports for July and August were considered to be satisfactory.

### Inquiry about a Chemist and Druggist.

A public inquiry under Part VII. of the National Health Insurance (Medical Benefit) Regulations, 1913, was held at the head office of the Insurance Commissioners, Buckingham Gate, London, S.W., on December 20, to ascertain whether the continuance of Mr. James Lloyd Davies, chemist and druggist, 63 Golborne Road, W. 10, upon the panel of chemists would be prejudicial to the efficiency of the medical service of the insured. The Court of Inquiry consisted of Mr. J. Fischer Williams (Chairman), Mr. F. E. Lemmon, and Major E. Saville Peck, M.A., Ph.C. Mr. Davies was not present, nor was he represented. In opening the case for the Insurance Committee for the County of London, Mr. Thomas Baty said that the Committee's agreement with Mr. Davies dated from March 1, 1915. The amount of Insurance dispensing done by him was not considerable, payments to him for 1915, 1916, and 1917 amounting respectively to 37*l.* 7*s.* 7*d.*, 91*l.* 12*s.* 9*d.*, and 38*l.* 10*s.* 1*d.* He had been a source of great difficulty to the Committee. After the nature of the complaints against Mr. Davies had been indicated, seven panel patients were called as witnesses and gave evidence on oath. Much of it was connected with Mr. Davies's alleged objection to recognising "Rep. mist."; other charges were those of rudeness and bad language. Mr. G. A. Tocher, Secretary of the London Pharmaceutical Committee, stated in evidence that he interviewed Mr. Davies at his shop in August 1917. Mr. Davies spoke on that occasion of his dissatisfaction with the payment, of his difficulty in getting stock, and of his objection to "Rep. mist." A voluminous correspondence, among which was a letter from Mr. Davies promising to recognise "Rep. mist.," was formally put in, and the inquiry was closed. The findings will be promulgated.

### December Drug Tariff.

The following are the alterations for December in the Drug Tariff issued by the National Health Insurance Commissioners for England and Wales:

**Lower:** Acetanilidum, 8*s.* 6*d.* lb.; acid. acetic., 1*s.* 9*d.* lb.; acid. acetic. glacial., 4*s.* 9*d.* lb.; acid. carbolic (detached crystals), 2*s.* 10*d.* lb.; acid. salicylic., 5*s.* 8*d.* lb.; acid. tannic., 15*s.* 6*d.* lb.; bals. peruv., 2*s.* oz.; barbitum, 9*s.* oz.; chloral hydras., 1*s.* 6*d.* oz.; codeina, 6*s.* 8*d.* dr.; codein. phosph., 6*s.* dr.; ext. ergot. liq., 11*s.* 4*d.* lb.; ferri et pot. tart., 5*s.* 8*d.* lb.; glycer. acid. boric., 4*s.* 9*d.* lb.; glycer. belladon., B.P.C., 8*s.* 6*d.* lb.; hexamina, 11*s.* lb.; lin. ammon., 3*s.* 6*d.* lb.; lin. belladon. meth., 12*s.* lb.; ol. earyoph., 27*s.* 6*d.* lb.; phenacetin., 1*s.* 10*d.* oz.; phenolphthalein, 5*s.* 10*d.* oz.; quini. hydrochl., 5*s.* 6*d.* oz.; quin. hydrochl. acid., 6*s.* oz.; quin. sulph., 3*s.* 7*d.* oz.; sacc. lact., 4*s.* 3*d.* lb.; syr. chloral, 5*s.* 6*d.* lb.; tab. acid. diethylbarb., gr. v., 15*s.* 4*d.* per doz.; thymol, 4*s.* 9*d.* oz.; tr. quin. ammon., 5*s.* 8*d.* lb.; oiled paper, 1*s.* 5*d.* per sheet.

**Higher:** Acetum ipecac., 2*s.* 10*d.* lb.; acid. hydrochlor., 10*s.* 4*d.* lb.; acid. hydrochl. dil., 6*s.* 4*d.* lb.; acid. nit. dil., 7*d.* lb.; acid. nitrohydrochl. dil., 7*d.* lb.; acid. sulph. dil., 7*d.* lb.; adeps. benz., 5*s.* 6*d.* lb.; amyllum (maize), 1*s.* 7*d.* lb.; anthem. flor. exot., 5*s.* lb.; calc. carb. præcip., 32*s.* cwt.; calc. glycerophosph., 1*s.* 10*d.* oz.; calc. lact., 16*s.* lb.; camphora (flowers), 8*s.* lb.; dec. aloes co., 1*s.* 7*d.* lb.; emul. ol. morrh. c. hypoph., B.P.C., 4*s.* 6*d.* lb.; ext. cinchonæ liq., 6*s.* 8*d.* lb.; ext. ergotæ, 5*s.* 3*d.* oz.; ext. glycyrrh. liq., 6*s.* 8*d.* lb.; glycerinum, 1*s.* 11*d.* lb.; hydrarg. subchlor., 9*s.* 9*d.* lb.; inf. gent. co. (ex conc.), 2*s.* 2*d.* lb.; inf. valerian. (ex conc.), 5*s.* 10*d.* lb.; lin. calcis, 2*s.* 2*d.* lb.; liq. morph. acet., 7*s.* 8*d.* lb.; liq. morph. hydrochl., 7*s.* 8*d.* lb.; lithii carb., 1*s.* 6*d.* oz.; lithii cit., 1*s.* 6*d.* oz.; methylsulphonal, 8*s.* 7*d.* oz.; mist. sennæ co., 1*s.* 3*d.* lb.; ol. abietis, 21*s.* lb.; ol. lini, 9*s.* gal.; ol. menth. pip. (redistilled), 44*s.* 6*d.* lb.; oxymel scillæ, 2*s.* 10*d.* lb.; phenazon., 5*s.* 6*d.* oz.; pulv. kino co., 14*s.* 3*d.* lb.; santonin, 17*s.* 6*d.* oz.; sodii glycerophosph., 100%, 2*s.* 8*d.* oz., ditto, 50%, 1*s.* oz.; sodii phosph. eff., 4*s.* 6*d.* lb.; sulphonal, 11*s.* oz.; syr. glycerophosph. co., B.P.C., 4*s.* lb.; tab. sulphonal, B.P.C., gr. v., 18*s.* 4*d.* per doz.; tr. belladon., 7*s.* 2*d.* lb.; tr. chlorof. et morph., 85*s.* 5*s.* 3*d.* lb.; tr. guaiaci ammon., 10*s.* lb.; tr. iodi fort., 9*s.* 3*d.* lb.; tr. valerian ammon., 6*s.* 8*d.* lb.; ung. hyd. co., 5*s.* 6*d.* lb.; ung. sulphuris, 3*s.* 6*d.* lb.; zinci chlor., 11*s.* 4*d.* oz.; zingiber jam. pulv., 2*s.* 8*d.* lb.; adhesive plaster, 8*s.* 0*d.* per sq. foot.

### SCOTLAND.

#### November Drug Tariff.

The Appendix for November shows sixty-one increases and ten decreases in drug-prices, and one increase and one decrease in appliances. There has been an increase of 10 per cent. in cost of containers, and sphagnum moss has been added to the schedule of prescribed appliances. The *status quo* is to be maintained on the understanding that the question of better payment will be considered at the conclusion of peace. We append the altered prices:

Name.	oz.	dr.	Name.	oz.	dr.
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Acetomorph. hyd. ...		9 1½	Pulv. kino co. ...	1 4½	0 2½
Acid. acetylsal. ...	2 5½	0 4½	" opii co. ...	1 8	0 3
" citric ...	0 6½	0 1	Quin. hyd. ...	13 4	1 11
" picric ...	0 8½	0 1½	" acid. ...	14 0	2 0
Amylum ...	1 9	0 3	" sulph. ...	11 2½	1 7½
Bism. carb. ...	1 9	0 3	Sod. cit. tart. eff. ...	0 4½	0 1
" oxid. ...	2 8½	0 5	" glycerophosph. ...	3 3½	0 6
" salicyl. ...	2 5½	0 4½	Spt. ath. co. ...	0 9½	0 1½
" subnit. ...	1 8	0 3	Sulphonal ...	13 4	1 11
Calc. lact. ...	1 10½	0 3½	Syr. fer. phosph. c. quin.		
Camphora ...	0 9	0 1½	" strychn. ...	0 4½	0 1
Chloramidum ...	4 2½	0 7½	" glyceroph. co. ...	0 5½	0 1½
Chloramidum ...	4 2½	0 7½	" tolu ...	0 3	0 0½
Conf. guaiaci co. ...	0 5½	0 1	Tinct. catechu ...	0 4	0 1
Ext. bell. sic. ...	3 6	0 6	" gelsem. ...	0 6	0 1
" casc. sag. ...	2 0	0 3½	" guaiaci amm. ...	0 8	0 1½
" coloc. co. ...	1 3½	0 2½	" hyoscyam. ...	0 7½	0 1½
Ferri am. cit. ...	0 7½	0 1½	" lavand. co. ...	0 8	0 1½
" quin. cit. ...	3 5	0 6	" quin. amm. ...	0 7	0 1
Gly. nepsin. ...	1 0	0 2	" valer. amm. ...	0 6½	0 1
Guaiacol. carb. ...	13 4	1 11	Ung. gal. c. opio ...	1 5	0 2½
Heximina ...	1 4½	0 2½	" hyd. nit. dil. ...	0 3½	0 0½
Liq. amm. cit. ...	0 2	0 0½	Vin. antimon. ...	0 5½	0 0½
Lithii carb. ...	2 0	0 3½	" colch. ...	0 6½	0 1
" cit. ...	1 9	0 3	" ipecac. ...	0 5	0 1
" cit. eff. ...	0 6½	0 1			
Malourea ...	14 0	2 0	Medicine-bottles up to and including 1½ oz., 2 <i>d.</i> each; over 1½ to 8 oz., 3 <i>d.</i> ; 8 to 10 oz., 4 <i>d.</i> ; 10 to 12 oz., 4½ <i>d.</i> ; 12 to 16 oz., 5 <i>d.</i> ; 16 to 20 oz., 6 <i>d.</i> ; 20 to 24 oz., 7½ <i>d.</i> ; 24 to 32 oz., 9 <i>d.</i> ; 32 to 40 oz., 10 <i>d.</i>		
Mel boracis ...	0 5	0 1	Poison-bottles up to and including 1½ oz., 2½ <i>d.</i> each; over 1½ oz. to 4 oz., 2½ <i>d.</i> ; 4 to 8 oz., 4 <i>d.</i> ; 8 to 10 oz., 5 <i>d.</i> ; 10 to 12 oz., 4½ <i>d.</i> ; 12 to 16 oz., 5½ <i>d.</i> ; 16 to 20 oz., 7½ <i>d.</i> ; 20 to 24 oz., 8½ <i>d.</i> ; 24 to 32 oz., 10½ <i>d.</i> ; 32 to 40 oz., 1 <i>s.</i>		
Menthol ...	2 11	0 5	Oiled silk, 1½ <i>d.</i> per 24 sq. in., 4 <i>s.</i> 8 <i>d.</i> per yd.		
Ol. abietis ...	2 0	0 3½	G.P. tissue, 36 in. wide, 3½ <i>d.</i> per sq. ft., 2 <i>s.</i> per yd.		
" anisi ...	1 0	0 2			
" caryoph. ...	3 2	0 5½			
" cubeb. ...	6 8	0 11½			
" eucalypt. ...	0 6½	0 1			
" menth. pip. ...	4 9½	0 8½			
" morrhue ...	4 7	1 pint			
Peppinum ...	7 4½	1 1			
Phenazonum ...	7 4½	1 7			
Phenolphthalein ...	5 7½	0 10			
Podoph. resiu ...	4 5½	0 8			
Pot. brom. ...	0 11	0 2			
" cit. ...	0 9	0 1½			
Pulv. catechu co. ...	0 6½	0 1			
" cinna. co. ...	0 8½	0 1½			
" cret. arom. ...	0 4½	0 1			
" c. opio ...	0 10	0 1½			

**SEYCHELLES VANILLA.**—The vanilla-crop of 1916 (cured and prepared in 1917) was again disappointing. Only 6½ tons was exported, but a large part of the crop has not been sent to the European market owing to lack of shipping facilities. The prospects for vanilla-culture in the future appear less promising than in the past.

**SEYCHELLES ESSENTIAL OILS.**—The essential-oil industry is maintaining its development in the Seychelles. New distilleries have been and are being erected. The falling-off in export of essential oils in 1916 in no way indicates a falling-off in manufacture, as shippers experienced great difficulties in getting away their produce.



## Pharmaceutical Society of Great Britain.

### North British Branch.

THE first evening meeting of the winter session of the North British Branch was held at 36 York Place, Edinburgh, on December 18, Mr. William Giles, J.P., presiding.

THE CHAIRMAN, in opening the proceedings, referred to the cessation of hostilities, and said that, with peace in view, they were now able to return to pre-war conditions and meet in the Society's hall as formerly. They had been able to continue evening meetings during the period of the war. While not forgetful of the strictly commercial and remunerative side of their calling as pharmacists, they realised it could not be successfully carried on unless they maintained those scientific and professional elements which are its essential foundation and which it was the purpose of these meetings to promote. The prospect of a Ministry of Public Health of a far-reaching and comprehensive nature would affect the practice of pharmacy and the whole conditions for the procuring, preparation, dispensing, and distribution of medicines and medical and surgical appliances. The period of reconstruction would also raise problems relating to the proper organisation of the craft of pharmacy. All these considerations emphasised the need for that unity and solidarity giving power and influence to secure that the views of pharmacists would be accepted and embodied in practical legislation. The Chairman also referred appreciatively and with regret to the recent death of Captain Bruce Macdonald Brander and Lieutenant Edward J. Brown, who were well known as regular attenders and who frequently took part in the proceedings of evening meetings in Edinburgh. He also took note of the election of Mr. W. J. Uglow Woolcock as a member of Parliament.

The first communication was a

#### NOTE ON OPIUM-ANALYSIS.

By D. B. Dott, Ph.C., F.I.C., F.R.S.E.

In a paper on the effect of codeine in hindering the precipitation of morphine by ammonia from a solution of its lime compound, by Annett and Singh, which appears in the "Analyst" for June 1918, the authors contend that the B.P. method of morphine estimation in opium gives results which are too low, especially for Indian opium, and that the low results are due mainly to the presence of codeine, which exerts a solvent action on the morphine and prevents its complete precipitation, the degree of interference depending on the proportion of codeine to morphine. In proof of the general proposition they describe several interesting experiments with alkaloidal mixtures and with the lime solution of opium treated in different ways. While not disputing the general statement that codeine in solution causes the precipitation of morphine to be less complete than it would be in solution of the morphine alone, there are some statements and conclusions in the paper which are open to criticism. It is hardly correct to speak of the morphine in the official process being precipitated by ammonia. It is precipitated because the lime with which it was in combination has been converted into calcium chloride and water, and being nearly insoluble in the saline solution the morphine separates as a crystalline precipitate. Then, on the strength of a series of estimations with the polarimeter, the writers assert "that narcotine is quite insoluble in water in the presence of excess of lime, either alone or in presence of morphine or codeine, or of both." One can only opine that the polarimetric is not a trustworthy method for the purpose, as it is certain that narcotine is dissolved under the conditions described, along with other alkaloids, notably thebaine, which alkaloid the authors of the paper seem to ignore. But the most important point to be remembered is that in the official process for estimating morphine in opium sufficient ether is added to completely dissolve all the codeine possibly present. No doubt a certain proportion of the ether dissolves in the saline solution, and in this way a small portion of the codeine may still exert some slight solvent action on the morphine. In that connection it has to be considered that the B.P. makes an allowance for loss in the saline solution, which is supposed to be founded on the amount of alkaloid capable of being recovered from the filtrate. Obviously, if the amount of codeine were fairly constant in proportion to the morphine, and the loss of morphine in the liquors correctly allowed for, the presence of codeine would be of little consequence. Although Annett and Singh do not state the percentage of codeine in

Indian opium, they appear to exaggerate the amount as compared with that in other kinds of opium. In certain of the experiments with mixed alkaloids the proportion of codeine is much in excess of what is actually found in opium. However, the most important experiments are those in which the authors employed the lime processes of the last two Pharmacopœias, comparing the results with the same in which the lime solution was first extracted with ether or toluene, before precipitation with ammonium chloride. Toluene is preferred to ether. Mr. Dott said he had tried the use of benzene and of the ether-chloroform mixture. When the lime solution is shaken with the immiscible solvent there is a marked tendency to form a kind of frothy emulsion which makes the extraction very troublesome. This is undoubtedly due to the formation of a slight precipitate, probably a basic lime compound. It has not been sufficiently noted that this kind of emulsification is due to some precipitation, so that when the mixture is pumped through a filter it separates quite readily. There is always a trace of lime compound (basic meconate or the like) in the morphine precipitate by the official process. When there is good reason to believe that there is more than normal of such a compound, it is well to dissolve the precipitate in boiling alcohol and filter before titration. When that is done he had not found nearly the difference between the solution treated with the solvent and that precipitated as usual which is reported by Annett and Singh. He had only tried a few experiments, and in two cases when ether-chloroform had been used the result by the two variations was the same—10.82 per cent. When the extraction of codeine, etc., is performed after the addition of the ammonium chloride, it is interesting to note that the effect is just the reverse of that alleged to result from extraction of the lime solution. In every case the solution which had been shaken with the ether-chloroform or with ether alone gave a smaller yield of morphine than the one not so treated—in one case 9.90, compared with 10.39 by the official method. Further experiments must be tried, but so far he did not think that a case has been established for altering the present process of the Pharmacopœia in the direction indicated. When the lime solution has been extracted by benzene (and presumably by toluene) the morphine precipitate weighs more and gives a higher titration result than when the lime solution has not been so treated; but the precipitate is distinctly less pure, leaving more insoluble in alcohol, and yielding a more coloured solution. Benzene and toluene have not the same power of dissolving morphine in the nascent amorphous state which is exhibited by ether, and the presence of benzene more quickly determines the precipitation of crystalline morphine. Even if it is proved that there is generally more morphine in the precipitate when benzene has been used, it would not follow that it was wholly due to the previous removal of the codeine. In the official method there is a tendency to incomplete precipitation, diligent shaking and many hours' standing being required to ensure complete precipitation, or rather as complete precipitation as possible. He hoped to have one or two doubtful points cleared up and results given in a subsequent note.

#### DISCUSSION.

Dr. WATT said with regard to the turbidity in the lime estimation he was inclined to suggest its being due to calcium carbonate. It was too readily assumed that the alkaloid is pure. That is not by any means always so, as they would find on igniting the precipitate it left an ash which was alkaline.

Mr. DUNCAN said he had noticed, when working on the solubility of various alkaloids some years ago, that codeine had a distinct solvent action on morphine. Indeed, any alkaline substance seemed to readily dissolve morphine, and they would expect that from the phenolic character of the alkaloid.

Mr. DOTT, in reply, said it is quite possible the turbidity might be due to calcium carbonate, but it is practically certain that there would be basic meconate of lime present as well. There is one point he had noticed, that in Watts' "Dictionary of Chemistry" it is stated that there is a morphine magnesium phosphate analogous to ammonium magnesium phosphate, but he had not found that such a compound could be prepared.

The next communication was a

#### NOTE ON PODOPHYLLIN,

by the same author. He said that some years he proposed that a test might be introduced depending on the different behaviour of the resins from *Podophyllum peltatum* and *P. Emodi* towards solution of ammonia. It is obvious, when treating a little of each resin on a watch-glass with ammonia solution, that the *P. Emodi* resin appears to gelatinise and to be much less soluble than the other.



The suggested test was not acceptable to the authorities, and some writers have gone so far as to say that the resins are practically indistinguishable, both being almost entirely soluble by liquor ammonia. The fact is that when treated with a moderate amount, (though a large theoretical excess as regards any possible combination) of dilute ammonia the *P. Emodi* resin leaves at least twice as much insoluble as the ordinary. The insoluble portion varies greatly according to the proportion of ammonia employed, and is affected by the period of maceration; but the amount left by the resin of *P. Emodi* is always much greater than that left by *P. peltatum*. Probably convenient proportions for the test would be 0.5 gram resin with 5 c.c. dilute ammonia and 5 c.c. water, well mixed by stirring, after twenty minutes filtered, washed, and dried near 100° C., should leave not more than 0.13 gram—i.e., 26 per cent.—if the resin has been prepared from the rhizome of *P. peltatum*. Whether the *P. Emodi* resin is equally valuable is a pharmacological question, but the two resins certainly differ in their constituents, or at any rate in the relative proportions of their constituents. The U.S.P. test with alcohol and alkali is probably more distinctive, but an ammonia test may be a useful addition.

#### DISCUSSION.

Mr. STOUT said he had worked on the process suggested by Mr. DOTT sixteen years ago, using 0.5 gram of resin with 15 c.c. of solution of ammonia and 15 c.c. of water, and found it quite satisfactory.

Dr. WATT said he thought there was room for having the facts as to podophyllin thoroughly worked out under some such scheme as that of the research scheme of the British Pharmaceutical Conference.

Mr. HILL said the statement in the B.P. that podophyllin is entirely or almost entirely soluble in 90 per cent. alcohol and in solution of ammonia is vague. If it was meant that the resin was entirely or almost entirely soluble in solution of ammonia, it hardly appeared to be correct. The new U.S.P. gave the maximum ash residue for podophyllin as 1.5 per cent., whereas hitherto it had been reckoned at 0.5 to 1 per cent. The variation in solubility requires explanation, and something might be due to the method of preparation or to the age of the resin, or to the method of storage. It was stated that it should be preserved in well-closed containers and protected from light, or in an amber-coloured bottle, suggesting that exposure to air or light caused changes in the constitution of the resin, which might cause variation in solubility.

Mr. DOTT, in reply, said there is no doubt the two resins differ considerably, and it is not accurate to say that the *Emodi* resin possesses the characters and responds to the tests applicable to *peltatum* resin.

Mr. J. J. FORBES, Perth, next contributed a paper on

#### THE EDUCATION (SCOTLAND) ACT, 1913, AND PHARMACEUTICAL QUALIFICATION,

in which he strongly advocated taking advantage of the provisions of the new Education Act so as to meet the requirements of pharmaceutical apprentices, also that the Qualifying examination should be divided into two parts to be taken at different times—namely, the scientific part early in the student's career, and the technical or pharmaceutical part at a later stage. He also strongly advised the development of the degree of Bachelor of Science in Pharmacy, already recognised by the University of Glasgow in all Scottish Universities, and on lines making the training and course of study for the Qualifying examination under the Pharmacy Acts an integral part of the scheme for university graduation in science.

#### DISCUSSION.

Mr. LOTHIAN said pharmacy might be said to be at the cross-roads, and the future would largely depend on the direction in which further progress was made. He agreed with the view that breaking the continuity of school study and having to go back after leaving school is a distinct disadvantage. Undoubtedly the existing Qualifying examination was overloaded. The problems to be dealt with were difficult, but not insoluble.

Mr. DOTT agreed with the scheme for dividing the Qualifying examination. He also viewed with approval the provision making all continuation classes during the day.

Dr. SMITH said Mr. Forbes has struck an important point in his reference to breaking the student habit.

Mr. DUNCAN said the suggestion that no advance had been made for forty years seriously discounted the communication which had just been submitted. He did not think such a statement could be maintained. The real trouble is not in regard to the teaching or the teachers. It is the result of the hopeless conditions due to the gross neglect of employers. It is distressing to find students

coming to a school of pharmacy who had to confess that they had never made a pill and knew nothing at all of the making of a thing like a suppository, and many more quite simple pharmaceutical operations. When an employer engaged a pharmaceutical apprentice he ought to consider himself in duty bound to teach that apprentice all that related to practical pharmacy, but, as a matter of fact, in a large majority of cases this is not done, and apparently many employers taking an apprentice for four or five years are concerned only to secure cheap labour. Things would never be better till they had some return to the kind of apprenticeship and training of the older days.

Mr. BOA said he did not favour the method of accepting certificates from outside bodies in lieu of their own examination. As to studying during apprenticeship, his experience of letting off an apprentice to attend classes for 2½ hours or thereabout during the working day led him adversely to criticise such a method. There is no comparison between the efficient training of an apprentice who is continuously in the pharmacy and the apprentice who has to go off for so many hours. He agreed rather with the view that pharmaceutical students should concentrate on one period to be devoted entirely to the necessary study.

Mr. HILL said he had not understood Mr. Forbes quite in the same sense as Mr. Duncan, his (Mr. Forbes) view being that they are still going on with an apprenticeship that is not concurrent with any course of study, and are still relying upon a six months' course at a school as a fit way of passing the Qualifying examination. With regard to the idea that it is a wrong method for an apprentice to be absent from the pharmacy for certain hours for study, that is going to come about whether they desire it or not. The new Education Act practically extends the school period to eighteen years of age.

Mr. FORBES, in replying, said the difference between Mr. Duncan and himself might be briefly stated to be that while Mr. Duncan was looking backward he was trying to look forward. He entirely acknowledged and appreciated the good work done by teachers, but they are compelled to work under extremely adverse conditions.

A cordial vote of thanks was awarded to the authors of papers.

#### EXHIBIT.

There was exhibited from Mr. A. McCutcheon, Kingussie, a specimen of the yeast plant used in the Highland district for the making of spruce beer. The so-called yeast plant is identical with what is known as the ginger-beer plant. It consists of the brainlike masses of the bacterium vermiforme made up of the rods enclosed in a gelatinous coating. There is distributed throughout the masses the growing cells of *Saccharomyces pyriformis* which effects fermentation of a mixture of sugar, molasses and water to which have been added twigs of the spruce fir.

## Associations' Winter Session.

**Gloucestershire.**—A meeting of the Gloucestershire Pharmacists' Association was held at the Royal Hotel, Cheltenham, on December 12, Mr. W. H. Hill (President) in the chair. The Secretary reported on the opinions of the local Parliamentary candidates regarding the separation of prescribing and dispensing under State control. Letters from the War Auxiliary Benevolent Fund Committee and from Mr. Moreton Parry were read, and subscriptions were at once promised totalling, with the amount already contributed within the week, 100£. Mr. Glyn-Jones's address on organisation was also read, and was warmly approved; and the President announced that copies of the address and of Dr. Addison's remarks at the opening of the School of Pharmacy would be sent to each member of the Association. It was decided that all pharmacies should be closed on December 25, 26, and 27 as on Sundays. Donations were voted of one guinea each to the Benevolent Fund and the Orphan Fund and of three guineas to the War Auxiliary Benevolent Fund.

**Middlesbrough.**—The Middlesbrough Chemists' Association met on December 18 to hear an address by Mr. F. G. Hines (member of the Pharmaceutical Council) on the *War Auxiliary Benevolent Fund*. The speaker also dealt with demobilisation, the new by-laws and their influence on educational development, and the disabled soldiers and sailors scheme; he also referred to the organisation report and the coming conference of Local Associations. A discussion followed, and it was unanimously resolved to support the W.A.B. Fund. Generous donations were promptly promised, and the hope was expressed that 150£. would be raised. A vote of thanks was accorded to Mr. Hines.



## Trade Report.

42 Cannon Street, E.C. 4, December 24, 3 p.m.

DURING the short interval since our last report business has been quite inactive, and as the produce markets will be closed from Tuesday evening, December 24, to Monday, December 30, there will be practically nothing to report next week. The Minister of Munitions has suspended the operations of various Orders dealing with tar products, these including articles like coal-tar, benzol, naphtha; also chlorine and chlorine compounds, bleaching-powder, sodium hypochlorite, acetic acid, acetone, and grey acetate of lime. This suspension will have an important bearing on the prices of acetic acid and acetate products, and a substantial decline in prices may be looked for early in the New Year. Trading in pharmaceutical chemicals has been at a standstill, there being no changes since last week. A reduction in industrial and mineralised spirit takes place from January 1, 1919.

**ACETIC ACID.**—The Minister of Munitions has suspended the operations of the Acetic Acid Order, 1917, and Acetic Acid Extension Order, 1917, which controlled glacial acetic acid and acetic acid of all strengths. Until further notice grey acetate of lime and acetone cease to be specified as war material. The suspension of control is a matter of importance in regard to future prices of acetic acid and all acetate products. As noted last week, the price of acetate of lime in U.S.A. was reduced to 3c. per lb., and as soon as tonnage can be obtained—which owing to scarcity may not be for several weeks yet—there is likely to be a heavy reduction in the price of acetic acid and acetates for forward delivery as soon as the rates of freight can be ascertained.

**ANISE OIL (STAR)** remains quiet, with "Red Ship" brand offering at 6s. on the spot, and to arrive at 5s. 9d. o.i.f.

**BLEACHING-POWDER.**—The Minister of Munitions has suspended the operations of the Chlorine and Chlorine Compounds Order, 1918, which controlled elementary chlorine and compounds, including bleaching-powder, sodium hypochlorite, and all descriptions of chlorine bleach liquor.

**CAMPOR (REFINED).**—Japanese is quiet, with spot sellers of 2½ lb. slabs at 6s. 9d. The exports from Japan during the nine months ended September were:

	1916	1917	1918
Kin ...	4,136,754	2,547,422	1,493,973
Yen ...	4,030,498	4,372,687	3,083,555

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
British India ...	1,128,848	806,501	321,193
Asiatic Russia ...	446,904	65,283	—
Great Britain ...	622,428	47,610	349,806
France ...	319,382	66,618	56,465
United States ...	1,416,038	1,371,827	496,829
Australia ...	87,869	73,426	89,575
Other countries ...	115,285	116,157	180,105
	4,136,754	2,547,422	1,493,973

**CINCHONA.**—The imports of cinchona into the United Kingdom during the past five years have been as follows:

	1913 Cwt.	1914 Cwt.	1915 Cwt.	1916 Cwt.	1917 Cwt.
Netherlands ...	9,916	2,311	726	12,253	20,702
Java ...	10,435	23,599	15,904	3,305	7,481
Peru ...	208	111	152	1,858	968
Other Foreign Countries ...	719	391	720	1,595	3,304

Total from Foreign Countries 21,278 26,412 17,502 19,011 32,455

Total from British Possessions 4,844 6,934 2,914 8,130 1,479

Total ... 26,122 33,346 20,416 27,141 33,934

The re-exports have been:

	1913 Cwt.	1914 Cwt.	1915 Cwt.	1916 Cwt.	1917 Cwt.
Germany ...	1,815	1,010	—	—	—
Netherlands ...	219	12,803	3,746	640	—
France ...	2,162	1,016	2,080	3,262	12,227
Italy ...	379	108	137	740	867
United States ...	26	129	127	3,151	2,050
Other Foreign Countries ...	222	122	1,089	933	378
Total to Foreign Countries ...	4,823	15,188	7,179	8,726	15,522
British India ...	13,798	—	—	—	—
Other British Possessions ...	—	—	41	214	147
Total to British Possessions ...	13,798	—	41	214	147
Total ...	18,621	15,188	7,220	8,940	15,669

**CASSIA LIGNEA** is much lower; at auction 500 cases sold without reserve on account of whom it may concern at from 100s. to 115s. for fair, dark 85s. to 92s., and coarse and dark from 75s. to 84s.

**CLOVES** continue quiet, with fair Zanzibar offering on the spot at 1s. 10d.

**COAL-TAR PRODUCTS.**—The Minister of Munitions has suspended the operations of the Benzol and Naphtha Order, 1917, which controlled crude benzol, crude naphtha, and light oils. The Naphtha Order, 1917, which controlled crude solvent naphtha, solvent naphtha, and heavy naphtha, has also been suspended. Likewise the Tar (Coal and Water Gas) Order, 1917, which controlled coal-tar and water-gas tar.

**FARINA.**—Japanese No. 1 is dull of sale on the spot at 68s. to 70s., and January-March shipment is offered at from 56s. to 58s. c.i.f.

**HONEY.**—Quiet, with a small business in St. Lucia at 180s. and in Cuban at 175s.

**MENTHOL** remains slow of sale, with Kobayashi-Suzuki offering on the spot at 20s. 6d.

**PEPPER** is lower, with spot sellers of black Singapore at 1s. 3d.; Tellicherry is quoted at 1s. 4½d., and Alleppy at 1s. 4d. White pepper is unaltered, with sellers of spot Muntok at 2s. 6d., and to arrive at 1s. 8d. c.i.f. London.

**PIMENTO** continues quiet, the spot value being 5d.

**POTASH PERMANGANATE.**—In further reference to the offer of English make noted last week, we understand that the quality is inferior in appearance and is not equal to pre-war standard, being powdery and of poor test. The lowest price for good quality (B.P.) is 9s. 6d. to 10s. per lb.

**SASSAFRAS OIL.**—Natural American is offered by importers at 19s. on the spot.

**SPIRIT (METHYLATED).**—From January 1, 1919, the following prices come into operation:

	In One Delivery.	Industrial.	Mineralised.
	61 O.P.	64 O.P.	61 O.P.
	s. d.	s. d.	s. d.
100 Galls. and upwards	8 6	8 7	9 5
30 " and under 100	8 7	8 8	9 6
10 " " 30	8 9	8 10	9 8

Any quantity taken in packages of 12 gals. or less is charged 1d. per gal. extra, excepting where the 10-gal. rate applies. Methylated resin finish, 2d. per gal. extra, methylated shellac finish, 9d. per gal. extra, over the prices quoted for industrial spirit. Terms: Cash in one month, less 2½ per cent. Carriage paid. Packages to be returned or paid for. The foregoing prices are without engagement. The special industrial spirit is now discontinued. *Industrial methylated spirits* contains 5 per cent. wood naphtha and 95 per cent. of spirit. *Mineralised methylated spirits* contains 10 per cent. of wood naphtha, 90 per cent. of spirit, with ⅓ of 1 per cent. of mineral naphtha and 0.025 of an ounce of aniline dye (methyl violet) for each 100 gals. of spirits, added to the mixture.

**ZINC PRODUCTS.**—Zinc oxide rules fairly steady, supplies being still limited both of foreign and English material, and prices range from about 75s. up to 82s. 10s. delivered London. Zinc dust is somewhat easier since the Government demand has relaxed. Best Australian is now quoted 107s. c.i.f. to arrive, and low-grade English is obtainable at 90s. and slightly less.

### French Essential Oils and Flower Oils.

Paris, December 17.

Owing to the transport crisis, which impedes all transactions in imports as well as exports, little business has been done. However, a considerable advance has taken place in the following oils:

**ANISE OIL (STAR).**—24s. per kilo. is quoted for "Red Ship"; Tonkin is not offered.

**BOIS DE ROSE FEMELLE** is 55s. per kilo. c.i.f. St. Nazaire. **BOIS DE LINALOE** is 56s. per kilo., but is not offered.

**CANANGA OIL** is very scarce at 80s. per kilo. **GERANIUM OIL.**—Bourbon is 75s. per kilo. c.i.f. Marseilles, and African is 95s. per kilo. c.i.f. Marseilles.

**LAVENDER OIL.**—The crop having been very deficient, the bulk was disposed of at 60s. to 70s. per kilo. Holders are now asking 80s.

**SPIKE LAVENDER.**—In the producing districts up to 24s. is quoted for the small parcels on the market.

**PETITGRAIN OIL.**—Paraguayan is cheaper at 55s. per kilo. c.i.f. Marseilles.

**YLANG-YLANG OIL.**—A few parcels of Bourbon are offered from 100s. up to 200s. per kilo. as to quality.

**TUBEROSE.**—The crop has been extremely small owing to unfavourable weather conditions and also on account of disease. Many plantations yielded not a single flower, others only a very meagre result. Thus a substantial rise



in prices for tuberosc products has taken place. Some bargains have been concluded at 23f. per kilo. for concentrated pomades.

**JESSAMINE.**—Rainy weather having begun early, the crop was cut short during the last days of October. The frosts of a long winter badly influenced the crop, a great many jessamine plants, chiefly in the dales, having been damaged by the excessive cold, even in the spring months. All these impediments have brought about a considerable delay in the blooming of the buds, and the normal harvest, which is generally in full swing about August 15, reached its height only towards the last days of August, thus causing a great delay in the manufacturing of the flavoured greases, resulting in a deficiency of about 35 per cent. compared with the last harvest. A small quantity of jessamine products (extracts, greases, and oils) have been produced, and from 24f. to 25f. per kilo. is asked for good quality of concentrated jessamine pomades.

### Java Cinchona.

At the annual meeting of the Tjiwangie Tea Estates, Ltd., held at 20 Eastcheap, London, E.C., on December 5, Mr. T. G. Hayes (chairman of the company), in moving the adoption of the report, said "their stock of cinchona was 441,276 lb., and this had been taken in at cost of production—2.3d. per lb. . . . Cinchona accounts for a profit of 4,668l. only, against 12,477l., which was the previous year's figure. The company were only able to dispose of 89,696 lb. of bark, against 285,576 lb. in the previous season. A shipment of 95,000 lb. of the company's bark was held up at Panama, and was finally discharged at New York. It has been arranged that this bark shall be delivered to American manufacturers, and we shall reap substantial profit, but this profit will come into next year's accounts. Another shipment of 16,000 lb. got so far as Suez, but Dutch shipowners would not risk proceeding through the Mediterranean, and the ship ultimately returned to Java, and the company's produce on board has since been delivered to the Dutch Combine's representatives there and paid for. The expenditure on new cinchona clearings and on the small tea extensions have, as in the preceding year, been debited to revenue account and not to capital. We look upon the new cinchona clearings in the light of replacements of uprooted areas. The year closed with an unsold stock of 440,000 lb. bark in hand, and the good profit which this stock will ultimately show will appear in the next balance-sheet. At the close of the year Mr. J. C. Valette, recognised in Java as an expert on cinchona, paid a visit to our cinchona-gardens. As was to be expected from all past results, he reported very favourably on the excellent quality of the land and of the trees planted, but warned us that we have for some years past been harvesting more bark than was economical. He laid down a programme to be observed in future. He further expressed the opinion that our reserve lands contained approximately 350 acres suitable for extensions of cinchona. Your Board desire to plant a new clearing annually. The contract with the Dutch Combine terminated in July of this year. A fresh arrangement has been concluded by the principal British cinchona proprietors in the island with the firm of Howard & Sons covering a period of ten years, which will secure to the growers as good terms as will be given to the remaining supporters of the Dutch Combine and will secure to the British Government a supply of quinine, of which Java holds the practical monopoly of production. In accordance with the scheme that Mr. Valette laid down, on which our deliveries under contract are based, our harvesting of cinchona-bark is greatly reduced for the current season—April 1918 to March 1919. We are opening a small clearing in cinchona, and have nurseries ready for a larger one next season. We must make up our minds to expect poor results for the current year."

### Chinese Opium.

The "North China Daily News" takes up a statement made by Lord Robert Cecil that the Government had no information of any increase in the local production of opium in China (*C. & D.*, October 25, p. 46). "The Government must be singularly ill-informed," the newspaper says, and goes on to quote reports from its correspondents in Kweichow, Kuangsi, Yunnan, Anhui, Shensi, Shansi, and Szechuan. These reports show from first-hand observation that the cultivation of opium and trade in the drug are being carried on to a considerable extent, and, quite unchecked. The newspaper recalls the common prophecy in 1912 that as soon as China had succeeded in excluding Indian opium she would begin growing it on her own account. The much-advertised decision of the Chinese Government to burn the remaining stocks of Indian opium, which were a mere drop

in the ocean of the amount produced by native cultivation, is in the circumstances, it says, a piece of typical Peking make-believe.

### Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the undermentioned ports:

<b>To London</b> (Dec. 18 to 20.) Albumen and yolk (Ch.), 2,660 cs. Chemical products, etc. unsorted, 2 cs. 10 cs. (Jap.), 11 pkgs. Cinch. hydrochlor. (R'dam.), 4 cs. Gallic acid (Fr.), 5 cs. Pot. iodide (Jp.), 20 cs. Pot. permang. (Jp.), 5 cs. Quinine (S'pore), 8 cs. Tannic acid (Fr.), 10 cs. Drugs, etc., unsorted Anatto seed (W.L.), 575 bgs. Camphor, cr. (Kee-lung), 600 cs. Kola (W.L.), 17 bgs. Menthol, 28 cs. Sarsaparilla (native), 198 bls. Dyes, dyeing, tanning materials, etc., aniline colours (Fr.), 70 cs.; logwood ext. (Jam.), 991 cs. Grape juice (Fr.), 36 cs. Gums, resins, etc., not described (Jap.), 56 bgs. (S'pore) 15 cs.; sticklac (S'pore), 145 cs. Honey (Jam.), 1,875 cs. 332 brls. (Jap.), 13 cs. Isinglass (S'pore), 15cs. Lime juice (Ja.), 154 pus. Oils, essential: oaraway (Amst.), 5 cs.; mint oil etc. (Jap.), 125 cs.; orange (W.L.) 152 cs. Oils fixed: coconut (Penang), 15,000 cs. (Cal.), 500 tons; linseed (Cal.), 2,500 tons; wood (Ch.), 959 cs. Perfumery, etc., unsorted (Fr.), 36 cs.; floral water, 117 cbs. Plumtango (Jp.), 150 cs. 72 cs. Seeds: linseed, 500 tons	Spices, etc.: cinnamon quills (Cey.), 137 bls.; ginger (Jam.), 51 bgs.; cuttings, (Jam.), 213 bls. (Jap. 333 bgs.; mace (S'pore), 81 cs.; nutmegs (S'pore), 400 bxs.; pepper, wh. (Sing.), 3,154 bgs. Starches (bags) (Jp.), 931 bgs., 1,475 pkgs.; farina, 81 bgs. 35 pkgs.; dextrin (Jp.), 50 Tuba root (S'pore), 124 bls. Wax, bees' (Jam.), 120 bgs. 2 cs. Wax, vegetable (Jp.), 267 cs. <b>To Folkestone.</b> Drugs (Fr.), 14 pkgs.; perfumery (Fr.) 12 pkgs. <b>To Liverpool.</b> (Dec. 14 to 18.) Antim. oxide, 460 cs. Antim. sulph., 550 cs. Bismuth ore (Amst.), 312 bgs. Chemical products, etc.: Acetone (Phila.), 2,446 drms. Cream of tartar (Fr.), 52 cs. Soda nitrate, 42,535 bgs. Drugs, etc., medicines (Boston), 102 cs. Galls (Ch.), 224 cs. Ipecacuanha (Johore), 50 bgs. Liquorice-root (Alex.), 47 bgs. (Sp.), 282 bls. 19 pkgs. Quillaja (Chile), 683 bls. Dyes, dyeing and tanning materials etc.: cochineal, 91 bgs. Gelatine (Sp.), 80 cs. Gums (bags): acacia, 429; not described (St. John's, N.B.), 100 cs. Honey (Chile), 529 brls. Oils, essential: eucalyptus, 987 cs.; sandal wood (Amst.), 36 cs. Oils, fixed: palm, 109 cs. Resin (U.S.A.), 2,861 brls.	Seeds, nuts, etc.: almonds (Sp.), 2,111 cs., 532 bgs.; cotton (Egy.), 314 tons; palm kernels, 29,182 bgs. 1,304 tons Talc (Fr.), 37 bgs. Wax, caudellila (U.S.A.) 255 cs., 249 bgs. Wax, paraffin, 1,786 brls., 2,408 bgs. <b>To Manchester.</b> (Dec. 16 to 18.) Almonds (It.), 750 bgs.; calcium tartrate, 48 cs.; essential oils (It.), 14 cs.; formaldehyde, 78 brls.; glycerin (Phila.), 363 drms.; liquorice juice (It.), 50 cs.; mustard seed (It.), 700 bgs.; squill (It.), 40 cs.; sulphur (It.), 2,500 tons; wax, paraffin, 381 brls., scale, 215 brls. <b>To Southampton.</b> Almonds (Fr.), 314 cs.; tartar (Fr.), 471 bgs. <b>To Hull.</b> (Dec. 12 to 17.) Almonds (Sp.), 2,274 bxs. 450 bgs.; (Copenhagen) 17 bgs. Cottonseed (Alex.), 11,900 bgs., 9,981 tons Dyes, dyeing and tanning materials, fustic wood (Jam.), 16 tons; logwood (Jam.), 22 tons; ext. 644 cs. Ginger (Jam.), 95 bgs. Honey (Jam.), 238 cs. Kola (Jam.), 24 bgs. Lime-juice (Jam.) 44 cs. Linseed (B. Ayres), 97,361 bgs. Orange oil (Jam.), 243 cs. Rennet ext. (Chagen), 21 brls. Seal oil (B. Ayres), 1,183 cs. Whale oil (B. Ayres), 1,266 cs. Sarsaparilla (Jam.), 40 bls. Starches (N.Y.), 20,004 cs. Wax, bees' (Jam.), 52 bgs.
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MR. B. J. MERFIELD, on retiring from business life after forty-two years' service with Burgoyne, Burbridges & Co., Ltd., was on December 18, in presence of a full muster of the staff, presented with an autograph album, accompanied by a wallet of "Bradburys," to which the directors of the company added their cheque, as a mark of esteem from his fellow-workers in the establishment. Mr. H. R. Arnold, in making the presentation, expressed his pleasure in testifying to the sterling character of their friend, and, on behalf of all present, wished that he might enjoy his future occupation of farming in his old Cornish home.

**POTASH SALTS.**—Strenuous efforts are being made across the Atlantic to build up the potash industry, a development primarily due to the cutting-off of German supplies through the war, but also to the fabulous rise in prices. Before the war the price of the 40-per-cent. grade was nominally \$35, but now stands at about \$180 a ton. This grade goes chiefly into the manufacture of fertilisers. The 62-per-cent. grade is mainly used for chemicals, and commands much more money at about \$7 per unit, this figure comparing with \$4½ per unit for the 40-per-cent. material turned into fertiliser. Low-grade potash is also extracted from kelp on the Pacific Coast, which yields about 25 to 30 per cent. of pure potash, and is marketed at something like 16½ per unit. Among the enterprises started recently is the Diamond Potash Co., of Nevada, with a share capital of \$300,000.



## Relaxation of Export and Import Prohibitions.

The Board of Trade announces that the following relaxation of the existing prohibitions of export and import will be brought into force from Friday, December 27:

### Headings Transferred from One List to Another.

From "A" to "C" lists: Ambergris; magnesite, caustic or lightly calcined and dead burnt magnesite; magnesium and its alloys; acetanilide; acetates, all metallic; amyl acetate and other amyl esters; benzoic acid (synthetic) and benzoates; chloral and its compounds and preparations; grindelia; hexamethylene tetramine (urotropine) and its compounds and preparations; lactates not otherwise prohibited; lobelia; serpentine rhizome. From "A" to "B" lists: Cloves; ginger; pepper, white; vanillin. From "B" to "C" lists: Baudruche skin; cobalt, cobalt ore and alloys of cobalt; silkworm gut (surgical); syringes, hypodermic; acornite root; aloes, araroba or Goa powder; barium peroxide; calabar beans; cannabiss indica (Indian hemp); cascarilla bark; catechu; chiretta; chrysarobin; colchicum and its preparations; colocynth; cubebs; damiana; gelsemium root; gentian root; ipecacuanha root; jaborandi leaves; lactic acid; methyl salicylate; nux vomica alkaloids and their preparations; oxalic acid; pyrogallol acid and mixtures containing pyrogallol acid; quassia wood; rhatany root; salol and its preparations; senna leaves and pods; sodium hyposulphite (thiosulphate) and mixtures containing sodium hyposulphite; sodium peroxide; sodium prussiates and mixtures containing sodium prussiates; stramonium leaves and seeds; strophanthus seeds; thorium oxide and salts of.

### Headings Altered. Delete.

(A) Glue, osseine and concentrated size (and other size and sizings made from glue), fish glue, finings and other kinds of gelatine.

(A) Glue stock of all kinds, including animal hoofs, untanned hides and pelts not otherwise specifically prohibited, and fish bladders.

(B) Pepper, black.

### Substitute.

(A) Glue, osseine and concentrated size (and other size and sizings made from glue), finings, and other kinds of gelatine.

(C) Fish glue.

(A) Glue stock of all kinds, including animal hoofs, untanned hides and pelts not otherwise specifically prohibited.

(C) Fish bladders.

(B) Pepper, black (Indian and Ceylon).

(C) Pepper, black, except Indian and Ceylon.

### Exports to Holland.

The Director of the War Trade Department announces that in order that effect may be given to the terms of the recent agreement with Holland, it is necessary for fresh N.O.T. certificates to be obtained in support of applications for licences to export goods of the descriptions stated in the following list. It should be borne in mind that the list is of general application, and it should not be assumed that it will be possible to grant licences for the export from the United Kingdom of all the classes of goods specified therein: Annatto seed; antimony; arrowroot; benzene; borax and boracic acid; calcium carbide; castor oil; cinchona bark; cocoa beans; cod-liver oil; gas oil; graphite and plumbago; gums, hard; honey; lubricating oil; magnesite, raw; malt; mandioca; nickel salts; nitrates (for fertilising purposes); nuts and kernels; oils and fats for edible and technical purposes (including oilseeds); paraffin wax; petrol; petroleum; phosphate rock; pyrites; resin; surgical and athletic goods; dental rubber; sago; soap; spirits, crude; starches; sulphate of copper; sulphur; surgical goods manufactured of rubber; talc (powder only), tannin and chrome, materials containing, not for tanning hides; tanning materials; tapioca; tea; turpentine; waxes.

### Imports from America.

The Department of Import Restrictions of the Board of Trade notify that the permit to purchase system, which has applied since March last to all imports of goods from America, has now been abandoned. In regard to goods on the list of prohibited imports and not liberated by means of general licence, it is still necessary to procure authority for importation before shipment is made. The abolition of the permit system, or the freedom from export restriction in the United States of America, does not confer upon any prohibited goods the right of entry into the United Kingdom without a licence, and will not be accepted as a defence of irregular importation.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

### "C. & D. Diary, 1919."

SIR,—Looking over the new *Diary*, I suggest that the attention of your subscribers should be specially called to the fact that the formulas for artificial mineral waters there given require the use of anhydrous salts. Approximately double the amount of the crystalline salts  $MgSO_4 \cdot 7H_2O$ , and  $Na_2SO_4 \cdot 7H_2O$ , is needed as equivalents to the anhydrous salts. It would be better also to use the equivalent of sodium bicarbonate when sodium carbonate is ordered, since this is generally the form in which the soda salt is present in mineral waters. The slight aeration recommended in the article would, however, have the effect of converting the carbonate into the bicarbonate.—Yours faithfully,

AQUA. (19/12.)

### A Bonfire Suggested.

SIR,—I notice that the Chinese authorities are making a bonfire of a large quantity of opium, which it is decided cannot be sold owing to its effects upon the morals of the country. I suggest that we in this country ought to collect all the German chemicals still floating about in this country and destroy them in a public bonfire. This would show that we are earnest in our protests that we are going to do without Huns in future. The Pharmaceutical Society might organise the scheme; it would be a good advertisement to use Bloomsbury Square for the bonfire. The easy penetration of the trade by German chemicals is no credit to our British manufacturers.

Truly yours,

MEMPHIS. (39/82.)

### The Cocaine Habit.

SIR,—It has surprised me, the revelations in regard to the use of cocaine. I have used the drug from the days when it cost 2s. 6d. per grain for dental work, and some years ago had occasion to use it for extraction in my own mouth, and the idea of any person getting to like it seems almost unbelievable. I removed from my own jaws some twenty-odd teeth and stumps painlessly (absolutely), but never discovered the least liking for the drug used. I remember the very last occasion, a lower wisdom tooth, which took a lot of cocaine, and I must have swallowed a fair dose, but the effect was much the reverse of exhilarating. I promptly drank some hot and strong coffee, and was soon myself again, but I've never felt the least desire for the stuff since. I also met with, some years ago, a specimen of the drug-habit (cocaine). This man commenced, I believe, in a quite legitimate way—a badly fitting and tight denture, painful results in the mouth relieved by the application of solutions of cocaine, then, as was discovered, by the use of the pure drug itself. The habit became chronic and the person began to be a nuisance, but I believe he got over the trouble speedily when he found he could no longer get access to it. It has all been rather a serious matter for dispensers, as the interference in quite *bona-fide* dispensing must have been, and continues to be, enormous.

J. P. N.

### The Question of Salary.

SIR,—When some time ago you wrote urging chemists to consider the question of raising dispensing prices I agreed with you, but had not looked at it from the point of view of the demands which would arise for higher wages from assistants. When you look at it squarely the extra cost of living falls rather heavily on assistants, especially when they are wanting to save money to pay the Pharmacy School and examination fees. Then there is the married assistant, with a youngster or two of school age. He wants to give them a decent education, and they must have clothes and boots, which are very dear nowadays. It looks as though chemists must readjust their charges all round or else take less income out of their businesses. If assistants are not attracted they will have to open shops of their own, and that means more competition. The question of which is the lesser of the two evils will have to be settled—we must pay more and take less out of our businesses unless these are put on a paying basis. I am old-fashioned, but I don't like the idea of being forced to grant definite sums to helpers; but the war has made us all see things in a different light, and perhaps when the Assistants' Union comes I shall fall in with its ideas. One-man businesses seem the only way out



of the difficulties which confront us, and this means better organisation in the shop and less leisure for the owner. Those will be the kind of businesses which will need to be started by young men who cannot obtain a standard wage if one is fixed. Perhaps in the bigger shops two or three partners could carry on the business. I am not sure that the public would not be the gainer, as the owner would come into direct contact with his clients. I'm afraid I am rather wandering away from the subject, but then it is the privilege of the old to be garrulous.

Yours truly,  
UNGUENTUM. (81/7.)

## Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

### Appreciations.

A *Tasmanian Chemist* (217/31) writes: "I read the *C. & D.* always, and thus keep in rapport with what is going on. It is one of the few papers that all through the war has kept up its publication and come to us regularly as ever. I mean, that its news and character have been kept up, and I don't remember losing more than one copy throughout. Other papers have dropped out or had their size reduced and paper altered in quality, but the good old *C. & D.* goes on for ever—like Tennyson's brook!"

"I enclose my subscription to THE CHEMIST AND DRUGGIST for the twentieth time. It was in 1893 I paid my first subscription. The *C. & D.* has been a great help to me. To be without the *C. & D.* is like a ship without a compass. Some day I hope to contribute a little of my experience to the *C. & D.*, hoping thereby to give a little encouragement to beginners. I had to start in business without any capital, and to-day I have reached a state of independence. Lack of capital is a very little hindrance to the right man. Too much capital has often been a curse, as I have known in case of many of my friends."—(87/28.)

"I take great pleasure in sending you my remittance for the continuation of THE CHEMIST AND DRUGGIST for another year. Now that the war has practically drawn to its close and peace is dawning upon us we can congratulate one another on the wonderful way in which we have been able to 'carry on' through the trying times which have lately passed. It is because the *C. & D.* has maintained its usefulness that chemists have been able to steer safely through the four years of war. So with the prospect of peace, and the many problems which still may arise, we expect, and feel sure, that the *C. & D.* will remain the friend of the chemists."—*E. D. G.* (118/38).

"For upwards a quarter of century, or more, By the *C. & D.* I've set very great store. Each week I look eagerly its arrival by post, And even in hard times count not its cost. Its advertisement pages I always well scan, And use to good purpose whenever I can. By purchases this year judiciously made My subscription has been more than ten times repaid. In trade information with which 'tis replete, 'Tis as full of good things as an egg is of meat. In war and in peace time, year after year, 'Fortiter, fideliter, feliciter.'" *Diogenes* (39/13).

## Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

*W. K. H.* (217/61).—INSURANCE-DISPENSING HOURS.—Our subscriber, having decided to close at 7 P.M. in future, advised the Clerk of the Insurance Committee, with which he has a dispensing contract, of the fact. The Clerk replied that the Committee "could not accede to his request." "*W. K. H.*" asks us in regard to his statutory rights in the matter. [If, as in London, the chemists have been asked for their hours and stated them in agreement with the Insurance Committee, these stand as part of the agreement, but since 8 o'clock closing came in it has altered matters, and the hours cannot be enforced. The point never arises, however, until there is complaint by doctor or insured person, when the complaint that the service is inadequate goes direct from the Insurance Committee to the Pharmaceutical Committee. This Committee must investigate and report. If the Insurance Committee is satisfied that the service is insufficient, it is empowered to make arrangements. The Clerk has no power to do anything unless he

gets a personal complaint, then the onus would be on the chemist to prove that the service is sufficient. The Committee cannot remove a chemist from the panel until he refuses to give service. If a chemist is removed he has the right of appeal to the Commissioners, but the local Pharmaceutical Committee should take the matter up for him. The conditions are: adequate service; and he is best able to answer that.]

*Ajax* (255/21) asks what sum he shall probably have to pay for excess profits duty, and also for an indication of how the result is arrived at, under the following circumstances. His net profit in 1913 was 325%, in 1918 it was 925%, and in the meantime he has increased the capital of the business by 300%. [Excess profits duty is chargeable on the difference between the profits made in the present accounting year, less certain allowances, including an allowance for increase in capital, and the pre-war standard of profits. This pre-war standard is the average of any two of the three trading years prior to the outbreak of the war, the taxpayer being entitled to select the two which are most advantageous to him. It is assumed that the 325% pre-war profits figure is the pre-war standard calculated in this way, and on that basis the duty is calculated thus:

Profits for year 1918 ... ..	£ 925
Pre-war standard ... ..	325
Interest on 300% at 11 per cent. ... ..	33
Statutory allowance ... ..	200
Special allowance—small trader $\frac{1}{2}$ of (£2,000—£925) ... ..	215
Total deductions ... ..	773
Taxable ... ..	152

Charge for excess profits duty is 80 per cent. on 152%—that is, 121% 12s.]

## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*J. M.* (253/58).—BOOKS FOR MINOR.—The following set can be recommended: Amy Johnson's "Text-book of Botany" (Allman, 7s. 6d.); Senter's "Text-book of Inorganic Chemistry" (Methuen, 6s. 6d.); Bennett's "Medical and Pharmaceutical Latin" (Churchill, 6s.); Southall's "Materia Medica" (Churchill, 7s. 6d.); "British Pharmacopœia" (Constable, 10s. 6d.); "Art of Dispensing" (*C. & D.* Office, 6s.).

*A. T. G.* (254/7).—STEREOTYPERS' PASTE.—The powder you send, which is used for making stereotypers' paste, seems to contain dextrin. Glue is not unusual in formulas for the paste, but the special feature is the presence of whiting. The following is a typical recipe:

Wheaten flour ... ..	1 lb.
White starch ... ..	$\frac{1}{2}$ lb.
Alum ... ..	$\frac{1}{2}$ oz.
Water ... ..	2 pints

Make into a smooth paste, heat, and add the following, previously made into cream:

Whiting ... ..	1 lb.
Hot water ... ..	1 pint

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec. 15, 1868.

### The Pharmacy Act, 1868.

We may remind our readers that from and after the last day of the present month it will be unlawful for any person to sell or keep open shop for retailing, dispensing, or compounding poisons, or to assume or use the title of "Chemist and Druggist," unless he be registered under the Act. Those who have not yet applied to be registered must forward their applications to the Registrar before the end of the year if they would avoid paying registration fees. Assistants, who are entitled to registration on passing the modified examination, must likewise send in their certificates before the 31st instant; but they need not present themselves for examination before the Act comes into operation.



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Assimilable Sulphur Colloid.  
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For Chronic Mucous Affections,  
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Specially prepared CHEMICAL  
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Intensive Strychno-Arsenical  
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Intravenous and  
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A non-greasy preparation,  
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Stannoxyll is a Specific for Acne, Boils and Carbuncles. After the second day of treatment the pain is relieved, and in most cases a complete cure is effected in five or six days. Relapses are unknown.

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Supplied in Vials of 80 Tablets, per Vial 3/6

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A solution of Protochloride of Tin in Glycerine.

EXTERNAL



APPLICATION.

This solution diluted (1-50) with water makes a lotion, which, used in conjunction with the tablets, adds considerably to their value in the treatment of Acne, Boils, Carbuncles, Styes, etc.

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A 2-oz. bottle will make 16 6-oz. bottles of lotion.

March 1918.

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DECEMBER 28, 1918

THE CHEMIST AND DRUGGIST  
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DECEMBER 28, 1918

THE CHEMIST AND DRUGGIST  
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vii

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**S**oda Hyposulphite, pea cryst., 1 cwt. @ 56/-  
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**S**odii Bromid. P.B., 7 lbs. @ 6/3 lb.  
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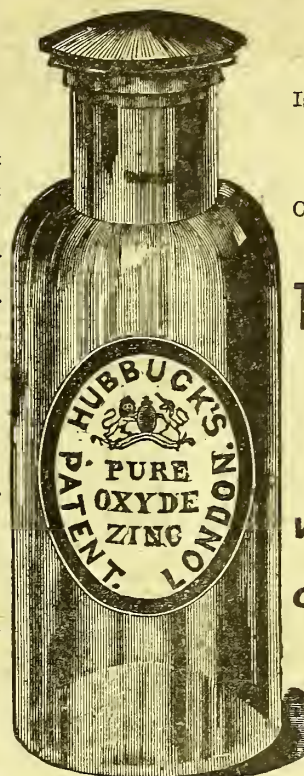
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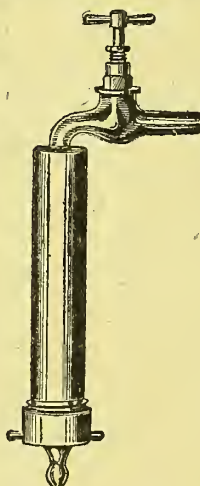
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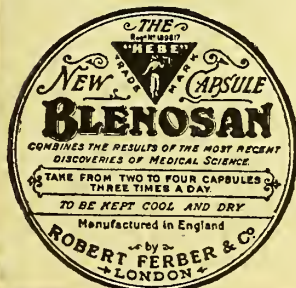
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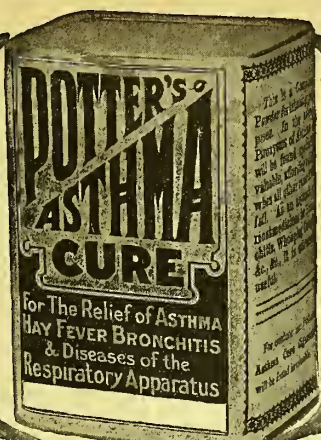
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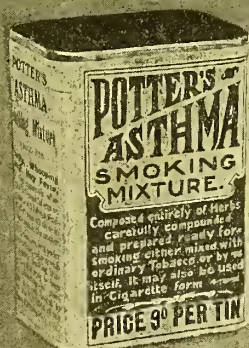
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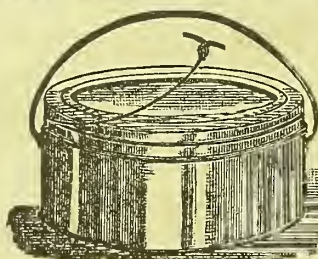
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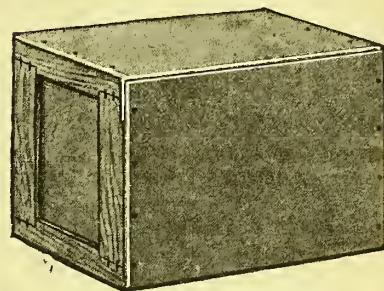
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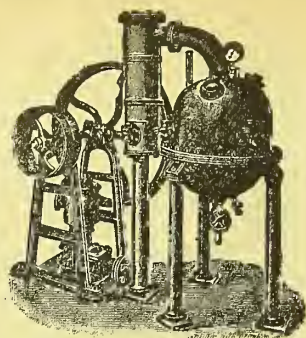
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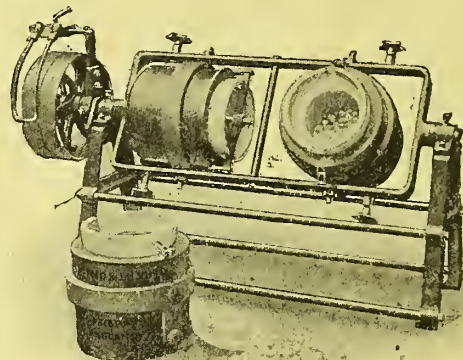
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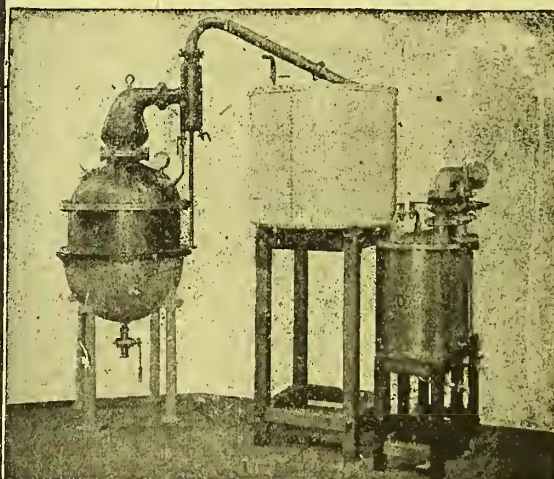
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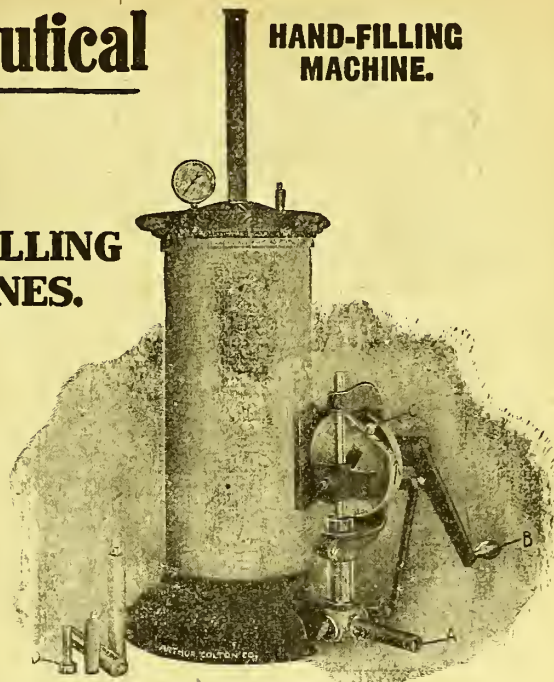
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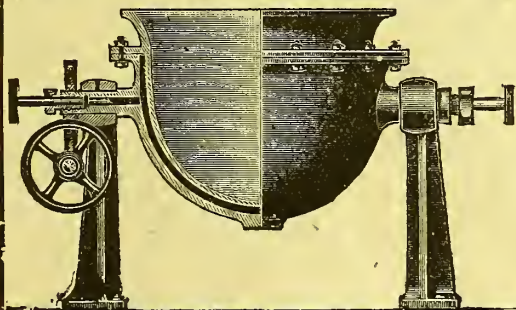
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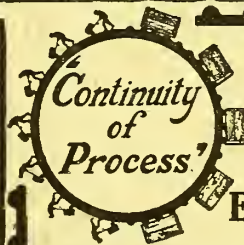
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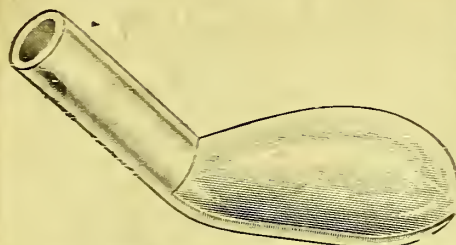
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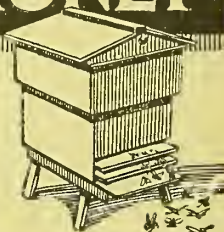
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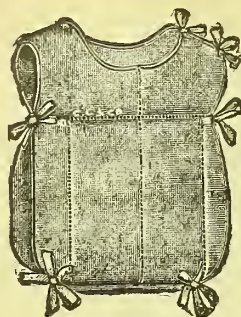
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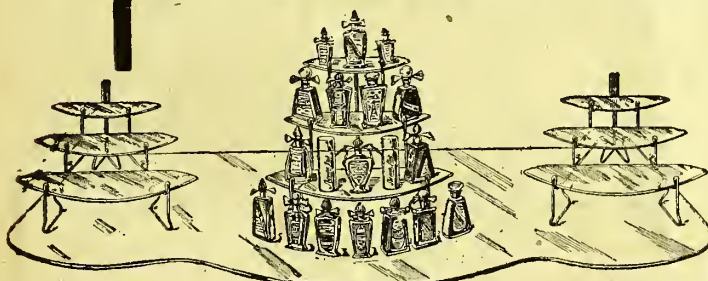
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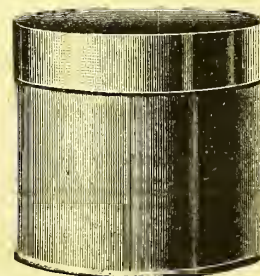
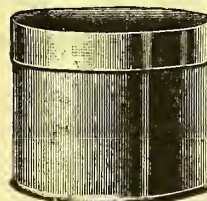
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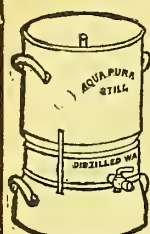
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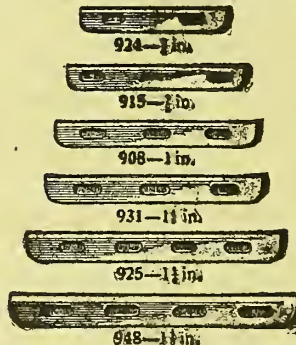
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Heavy weight ... ..	each	4 0	4 4	4 8	5 0	5 6	6 0	6 3	7 0
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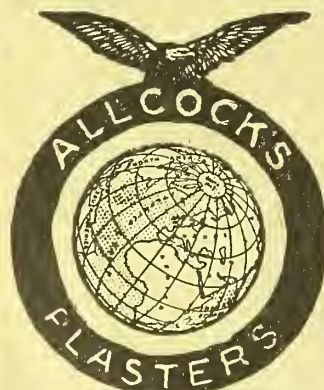
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Inquiries and correspondence invited.

**WHOLESALE AND EXPORT ONLY**



Thanks to our glorious Army and Navy

we are once more able



to wish all our friends

**A Bright New Year.**

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*We trust that a speedy return to normal conditions  
will make 1919 a Prosperous New Year also.*

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**MAY, ROBERTS & CO. LTD.,** 7/13 Clerkenwell Road,  
LONDON, E.C.1.

And 16 Westmoreland Street, Dublin.



THIS SUPPLEMENT  
IS INSERTED IN  
EVERY COPY OF  
"THE CHEMIST AND  
DRUGGIST."

# THE CHEMIST & DRUGGIST & SUPPLEMENT.

OFFICES:  
42 CANNON STREET,  
LONDON, E.C.4

DECEMBER 28, 1918

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

### PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3817 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

# CHEMISTS' TRANSFERS.

## Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, N. (Busy Main Thoroughfare).—Ready-money Business; returns, under management, upwards of £2,000; commodious premises; corner position; vendor's own property; lease will be granted; valuation terms considered.

2.—HYDE PARK.—For immediate disposal, high-class Dispensing and Retail Business; returns about £1,200; gross profit between £650 and £700; the business is known to us, and we can recommend it; valuation terms.

3.—LONDON, N.W. (Death Vacancy).—Ready-money Business, situate near busy tube station; returns over £1,500 at fair prices; handsomely fitted shop, fairly stocked; roomy house, garden; new lease will be granted; valuation terms entertained.

4.—CRYSTAL PALACE DISTRICT.—Cash Retail and Dispensing Business; established many years; returns about £1,150 at fair prices; there is also an appointment attached; rent £46; held on lease; stock and fixtures valued at £550; price £675.

5.—LONDON.—Old-established good-class Retail and Dispensing Business; returns upwards of £2,000; scope for development; well-fitted shop and comfortable residence; no near opposition; price to be arranged equitably.

6.—HOME COUNTY.—Good middle-class residential locality; Retail and Dispensing Business, situate in close proximity to railway station; returns, under manager, £1,500 (about); modern fitted shop and excellent residence; price about £600, or £175 for goodwill; stock and fixture by valuation; part payment.

7.—LEWISHAM.—Death vacancy; all good middle-class trading; excellent position; returns average £1,200; gross profit about £450; well-appointed shop and comfortable residence; price £600.

8.—HOME COUNTY.—Modern Pharmacy, chiefly ready money, situate in centre of good market town; returns average between £3,000 and £4,000; well-appointed shop and good residence; about £3,000 required.

9.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; net profit £900; turnover might be materially extended under qualified management; price £2,500.

10.—L & N.W. MAIN LINE.—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on a long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

11.—POPULAR HEALTH RESORT (S.E. Coast).—Well-established Business; returns during next year should be about £1,500; present rate £1,000; the business is situate within easy distance of the sea; valuation terms entertained.

12.—KENT COAST.—Good middle-class Business; Dispensing, Prescribing, and Photographic; established 50 years; returns £900; present rate, owing to neglect, £550; comfortable residence; rent £45; price £350; excellent opening for an energetic man with small capital.

13.—GREAT CENTRAL (Main Line).—Retail and Dispensing Business; returns about £4,000 (present rate); business suited to an energetic man with knowledge of good-class trading; terms, valuation of stock and fixtures, and premium for goodwill.

14.—HOME COUNTY.—Modern Pharmacy, situate in principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

## BUSINESSES FOR DISPOSAL.

3s. 8d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

LONDON, N.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner, 160 Stoke Newington Road, N.

SUSSEX.—Retail and Dispensing; principal street; returns doubled in five years; Dispensing as prescription book trebled; good house, bath (hot and cold), garden; little Insurance work, part purchase can remain; suit unqualified man by arrangement; fullest investigation; £600. Apply 176/39, Office of this Paper.

MIXED residential country Business for sale within twenty miles of Manchester; easily worked, doing from £1,400 to £1,500 a year. "Sesame," c/o James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

WHITTLESEY, CAMBRIDGESHIRE.—To Chemists and Druggists.—For immediate sale as a going concern, owing to the death of the proprietor, a well-situated Dwelling-house and Shop with a good-class Dispensing, Family, and Retail business; established over 100 years; the house is in a good state of repair, and the shop is well fitted and stocked; there is in connection with the business an excellent Newspaper Agency and also a Fire Insurance Agency. Apply Mrs. M. H. Sharpley, Highcauseway, Whittlesey, Cambs.

SOLUBLE Essence Making (Vanilla, Raspberry, Lemon, Ginger Ale, etc.), and Liquid Colours; complete outfit, utensils, bottles, ingredients, and fullest recipes; high-class products; easily learnt; large profit on cost of production; no goodwill; not worked during war; £150 for all. Apply, first instance, Jackson, Pownall Square, Liverpool.



# BERDOE & FISH

## VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

1.—WEST OF ENGLAND.—For early disposal, two good-class Dispensing Businesses, together or separately; combined turnover, £5,000; net profit about £1,100; books properly kept; price £1,400 and £1,200 respectively, or small goodwill and valuation of stock and fixtures.

2.—YORKS (W. Riding).—Sound Ready-money Retail, in splendid position; returns average £2,500, increasing; net profit £700 to £800 clear; good house and Pharmacy; exceptionally well stocked, owner retiring; price £2,300; full value offered.

3.—EAST COAST.—Select Retail Business, with Photographic; in rising resort; returns this year over £1,300; very best position; well-arranged Pharmacy, well stocked; owner retiring; price, valuation, plus small goodwill; about £850, all at; personally recommended.

4.—BERKS (25 miles out).—£150 secures a sound Business at present under female; returns £8 to £11 weekly, at good profits; low rent; stock and fixtures worth fully £200; smart man with little spare capital would at once add £5 a week to takings; worth attention.

5.—NORFOLK.—Light Retail, with agricultural and veterinary trade, in excellent position of large town; returns £20 to £25 weekly, increasing; plenty of scope; illness sole cause of selling; price £500, or £50 and valuation.

6.—LONDON SUBURB, S.E.—Very profitable sound cash Retail; no Panel or Dispensing; returns £2,000; net profit £700; splendid main road position; well fitted and stocked; owner retiring; price £1,300.

7.—CRYSTAL PALACE (Near).—Middle-class Retail and Dispensing; returns over £1,200; good profits; no immediate opposition; low rent; fully stocked; price £675.

8.—LONDON, S.W.—Good-class Retail and Dispensing Business; in fine position, close to busy station; returns £1,000; no panel; clear net profit over £300; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

### BUSINESSES WANTED.

We are in immediate want of sound concerns returning from £700 upwards; town and country; cash buyers waiting; intending vendors are cordially invited to correspond. Terms on application. Established 1870.

### AGENCIES.

**A** MERICAN AGENCY DESIRED.—One of the most progressive and successful Drug houses in America, amply financed, with best selling organisation, and highest-class Representatives in the principal distributing centres of the United States, Central and South America, enjoying close and confidential relations with the most prominent Drug, Chemical, Pharmaceutical Manufacturers, and Wholesalers, desires American Agency of one or more equally prominent foreign Chemical or Specialty Manufacturers who desire best of American representation; highest bank and agency references. Apply 144/12, Office of this Paper.

**E** ASTERN REPRESENTATIVE.—A qualified English Chemist, who will be disengaged shortly, is prepared to represent a Wholesale and Manufacturing firm of Chemists and Druggists (Chemicals, Pharmaceutical preparations, Packed Goods, and Druggists' Sundries) in India, Burmah, and Ceylon. He has a thorough and extensive knowledge of Eastern trade, having been resident in the East for several years, and visited all the important towns in the above countries on behalf of London principals. Correspondence invited. Apply Post Box No. 341, Bombay (India).

**I** TALY.—Manufacturer of Cream of Tartar and exporter thereof, and of Citric and Tartaric Acid to all countries, large importer of Chemicals, well introduced in the whole of Italy, would take up the matter of some good sole agencies for Italy; best references and securities. Apply 236/28, Office of this Paper.

**A** GENTS wanted for their respective grounds; 20 per cent. commission on all net accounts paid; orders booked, repeats, letter orders, etc., from the trade; a Proprietary medicine showing 33½ per cent. profit to the retailer; kindly state goods already carrying, duration of connection, exact ground, and references, not originals. Reply to 171/25, Office of this Paper.

**P** ARIS.—An English or American firm, desirous of introducing Proprietary Medicines in France, can arrange for office and warehouse and other facilities in central position. Address Chatel-Guyon Miraton, 9 Rue Auber, Paris.

**T** HE ANGLO-FRENCH DRUG CO., LTD., desire to inform the trade that they have opened a Branch in Paris with large Stock Rooms. They are therefore now in the position to offer their unique experience in introducing British goods and Specialities into France, and would be pleased to receive proposals as to sole Agencies. The Company would also act as buyers in France for British and Colonial firms on a small commission basis. Proposals, etc., which will be treated confidentially, to be sent to the Head Office, Gamage Buildings, Holborn, London, E.C. 1.

**T** HE LEASEHOLD of a capable man for sale, calling on London and suburban Chemists; a good side line wanted; 14 years' experience; top-hole references. Apply 174/12, Office of this Paper.

### PARTNERSHIPS.

**P** ARTNERSHIP, Directorship, or good Proprietary wanted by Pharmacist at present in own business, who desires change; open to receive genuine offers where capital £3,000 and services would be adequately recompensed. Apply, giving full details in strictest confidence, to "Adaptable" (176/13), Office of this Paper.

**£2,000.**—Advertiser, soon to be discharged, desires to acquire an interest in any good commercial or manufacturing business with good prospects; qualified Chemist and Druggist; 38 years; well educated, intelligent, a good character; five years' Colonial experience, with good commercial knowledge; Glasgow preferred. Write Box "A. S.," c/o Davies & Co., Finch Lane, E.C. 5.

### FOR SALE.

**J**ACKETED Copper Steam Boiling Pans on tripod stands, 20 gallon, £18, £20; Copper Gas Water Boilers on stands, 3 gallon 55s., 10 gallon 85s.; Semi-rotary Pump, £3; Bottle-filling Machine, £18; Personal Weighing Machine, £4 10s.; two White Glass Decanter-shape Carboys, new, 25s. pair; Berkefeldt Filters, 1 candle, copper, 45s.; 3 candle, Enamel, 75s. Jackson's, Pownall Square, Liverpool.

### SITUATIONS OPEN.

#### RETAIL.

**L** INCOLNSHIRE.—Wanted (during January), qualified Manager; able to take entire control of busy up-to-date business, N.H.I., etc.; partly furnished house and gas, and pleasantly situated, facing public park; applicants must be under 40, and able to give undoubted references. Send full particulars to 158/34, Office of this Paper.

**L**ONDON, S.W.—Wanted, a qualified Assistant; live in; must be quick, accurate, and neat Dispenser; state age and salary required. Apply John Selley, Chemist, 202 Earl's Court Road.

**L**ONDON, W.—Sharpe & Son require a competent Assistant with good Dispensing experience; outdoors. Please give usual particulars of experience, etc., and when disengaged, to W. J. I. P., c/o Sharpe & Son, 34 High Street, Notting Hill Gate, W.

**M**ANCHESTER: ANCOATS HOSPITAL.—Wanted, a qualified (Minor) Dispenser, male or female, to devote whole time to the duty of the office; lunch and tea provided. Apply, not later than 30th December, stating age, experience, and salary required, together with copies of three recent testimonials, to Herbert J. Dafforne, Secretary.

**M**IDGLEYS (Manchester) have vacancies in their St. Ann's Square Pharmacy for a qualified Assistant well up in Dispensing; also an unqualified Counterman and Window-dresser; hours 8.45 to 7, Saturdays 1. Replies, in confidence, Midgleys, 5 Mayes Street, Manchester.

**S**HEFFIELD.—Wanted (immediately), an energetic Managing Assistant for a mixed family business; no Sunday or Thursday duty; good salary to the right man. Give full particulars, references, etc., to Hallatt, Chemist, 387 Attercliffe Common, Sheffield.

**S**IDMOUTH (South Coast, Devon).—Reliable Assistant required for high-class Dispensing business; outdoors; comfortable berth; short hours; liberal salary; railway fare paid. Apply, giving all particulars, to Hinton Lake & Son, High-class Chemists.

**S**OUTH DEVON.—Qualified Manager for branch business wanted about middle January. Particulars as to age, reference, experience, etc., and salary required (residence provided), to Holman, Ham & Co., Ltd., Market Street, Exeter.

**S**OUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.



**SOUTHAMPTON.**—Wanted, Junior Assistant; qualified or unqualified; outdoors; age 20-25. State full particulars as to experience and salary required to Martin, Pharmaceutical Chemist, 7 Archers Road, Southampton.

**A**N Assistant to live over shop; unfurnished rooms, coal, gas, and gas cooker free; easy hours; comfortable berth. Walwin, Chemist, Gloucester.

**A**SSISTANT required, unqualified; outdoors; N.H.I., etc.; part-time would be entertained. G. L. Austin, Pharmacist, 176 High Street, Hounslow.

**D**ISPENSER (lady) wanted for month; live out; panel and private practice; hours 11-1, 7-9 o'clock. Dr. Hanbury, 157 Roman Road, Bow, E. 3.

**D**ISPENSER wanted, Islington Dispensary, 303 Upper Street; qualified. Apply Dr. Smith, 303 Upper Street, N., between 12-2, with salary required and recent testimonials.

**D**URING JANUARY.—Branch Manager seeking permanency; accustomed to good-class Retail and Dispensing, with practical knowledge of Optics. Please give usual particulars of experience, age, height, and salary required, to D. T. Evans, Chemist, Margate.

**M**ANAGING Assistant wanted for good-class Dispensing business; good hours. Full particulars in first letter, 177/22, Office of this Paper.

**M**ESSRS. TIMOTHY WHITE & CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

**J**UNIOR Dispensing Assistant wanted (at once); state age, height, and salary required (outdoors), and give last three years' references; hours 8.30 a.m. to 7 p.m.; no late duty. H. Eubank Smith, 5 Norman Road, St. Leonard's-on-Sea.

**R**EQUIRED, a Locum from January 1st to 14th; outdoors. State terms, experience, and references. Savage & Co., 109 St. James Street, Brighton.

**U**NQUALIFIED Assistant wanted for Counter and Dispensing; good salary; occasional Sunday evening duty. Apply personally, Wm. Fox & Sons, Ltd., 109-113 Bethnal Green Road, E. 2.

**W**ANTED (immediately), fully-qualified male or female Dispenser; good wages; live out; permanency. Apply Manager, Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

### WHOLESALE.

**I**LFD.—Wanted, a Clerk to look after Warehouse Stock, buy bottles, paper, etc. Howards & Sons, Ltd.

**A** THOROUGHLY competent and energetic Tablet Manager is required by a North of England house; the position offers ample scope, and should appeal particularly to a man of ideas and the force required to place these ideas into practical use. Applicants should give fullest particulars in the first instance, and state when disengaged. Apply 1/60, Office of this Paper.

**C**APABLE energetic young man required; able to take charge of Chemical Merchant's Office in City; splendid opportunity; salary and commission. Write, stating full particulars, age, experience, to 257/69, Office of this Paper.

**E**XPERIENCED Capsules Makers; machine work; piece-work rates paid; male or female. Evans Sons Lescher & Webb, Limited, 60 Bartholomew Close.

**G**ALENICALS.—Wanted by Manufacturing Chemists in Suffolk, a man efficient in making up Galenicals, to take lead in department under Manager. State experience, age, and salary required to C. Stallon, 62 Bank Chambers, London, W.C. 2.

**G**OOD position and prospects offered to gentleman with thorough business experience acquired in import and export houses; able to correspond on own initiative; knowledge of French essential. Apply, full details, age, salary, etc., 160/1, Office of this Paper.

**L**ABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

**P**HARMACIST, age about 24, well educated, wanted by London firm of Wholesale Druggists for junior position in sales department; good opening for suitable man. Full particulars must accompany application. Box 1/60A, c/o Dixons, 195 Oxford Street, W. 1.

**P**ILLMAKER wanted for small power plant. State in confidence experience, and commencing salary expected, 176/29, Office of this Paper.

**R**EPRESENTATIVE.—Exceptional opportunity offered by Wholesale and Manufacturing Chemists; good prospects for young and able man; must be willing to reside in the provinces and devote whole time. Apply 258/44, Office of this Paper.

**S**ALES MANAGER.—Good position and prospects offered to gentleman with thorough knowledge of Drug sundries, Hospital and fancy goods; experience as Sales Manager in above trade essential. Write full details, age, salary, etc., 174/11, Office of this Paper.

**T**ABLET COMPRESSING.—Allen & Hanburys, Ltd., Bethnal Green, E. 2, require the services of an experienced man for Compressing Medicinal Tablets. Write full particulars as to age, experience, and wages required, to "P. S. K." c/o above.

**W**ANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

**W**ANTED (at once), smart reliable Manufacturing Chemist; experienced in the making of Food Products supplied to Grocery and Confectionery trade; liberal terms, with interest on results, to suitable applicant. Write, giving age, experience, and salary required, to 180/13, Office of this Paper.

**W**ANTED by a firm of Essence Distillers and Compounders, an energetic man with Pharmaceutical training; must have had some experience of mixing and compounding. Apply 1/48, Office of this Paper.

### SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

**I**TALY.—Qualified Assistant for Dispensing and Counter; knowledge of languages not essential. Write, with full particulars, and, if possible, photograph, H. Roberts & Co., Corso Umberto, 417, Rome.

**J**APAN.—Wanted immediately, as Fourth Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; no ladies or married men need apply. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

### SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

#### [HOME.]

#### RETAIL.

**A** GOOD all-round man with ten years' experience, desiring change, is seeking permanent post where ability and tact is financially appreciated; unqualified; 27; married. Please give full particulars in first letter, "Bucho" (184/27), Office of this Paper.

**A**SSISTANT (French), five years' experience, desirous of improving English language, desires situation; age 19; good references. Apply Maurice Poussignon, 11 Rue Louis Maurice 11, La Varenne (Seine), France.

**A**SSISTANT (unqualified), 26, capable of managing, with good all-round experience, requires progressive berth; good salary. Apply 185/15, Office of this Paper.

**C**APABLE young man, with S.E. and N.W. London experience, desires post as Dispenser in high-class business; City or West-End preferred; highest references. Ex-Guardsman, 3 Morton Gardens, Wallington, Surrey.

**C**LERICAL; evening work of any kind; terms moderate. Write "F. G." (159/15), Office of this Paper.

**L**ADY Dispenser, Hall experienced, desires post; Doctor or Institution, or locum; London only. "C." 98 Sutton Court, Chiswick.

**L**ADY Dispenser, qualified, disengaged January 8th, requires post with Doctor or Hospital; two years' experience with late Doctor; near Nottingham if possible. Apply 167/10, Office of this Paper.

**L**ADY (Hall), lately qualified, seeks post as Dispenser; if Chemist, Dispensing only. Miss A. White, Bowling Green, Strabane, co. Tyrone, Ireland.

**L**OCUM; qualified; disengaged after Saturday. Cito, 4 Blenheim Road, N.W. 8.

**L**OCUM; disengaged 27th; wide experience; best references. Apply 2/10, Office of this Paper.



**L**ONDON.—Assistant, unqualified, 5 ft. 11½ in., 26 years, five years African Retail, at present holding commission in R.A.F., shortly to demobilise, four years' active service, excellent references, wishes to take Minor; Window-dressing, Dispensing; first-class Counter hand. "Africa" (174/9), Office of this Paper.

**M**ANAGER; qualified; tall; 45; high-class and N.H.I. Dispensing, Photography; good Counterman; disengaged; duration engagement; London. Pharmacist, 9 Grantbridge Street, Islington, N.

**M**ANAGER; 37; qualified; at liberty January 12th; Buying, Bookkeeping; with view to partnership or succession if possible. Apply 184/35, Office of this Paper.

**M**ANAGER; unqualified; London and provincial; good experience; highest references. Apply 2/100, Office of this Paper.

### WHOLESALE.

**M**AKE 1919 YOUR BEST YEAR.—Get a pushing man with ability to control your manufacturing and output; Toilet, Pharmaceutical, etc.; disengaged. Apply 176/28, Office of this Paper.

**O**N DEMOBILISING.—Advertiser, age 33, desires an appointment with Wholesale or Manufacturing Chemist; sound knowledge of Drugs, Sundries, etc.; Photography and Advertising; West Riding of Yorks preferred, but not essential. "C. B. W." (184/34), Office of this Paper.

**R**ETURNING Australian soldier desires Agencies in Chemist's lines and Toilet articles. Full particulars to 8983 Gordon, att. Aust. Base, Post Office, London.

### SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

**W**ORKS Chemist, first-class Continental practice, desires position abroad; Pharmaceutical preparations; English, Dutch, French, German; best references. "Scientific" (258/19), Office of this Paper.

### MISCELLANEOUS.

**O**FFERS.—2 cwt. Pulv. Acid Boric., 270 lb. Senna Pods, 1 cwt. Senna Leaves, 92 lb. Pias. Glycyrrhiza Decrt. Incis. Opt., 24 oz. Essential Ol. Sinapis Ver., 20 oz. Clove Oil (not B.P.). "Oleum" (185/6), Office of this Paper.

**S**ECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDOCK & CO., 262 Old Street, London, E.C.

**S**HOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

**A**DVERTISER, with sound all-round Wholesale experience, desires position in small Wholesale house with view to Partnership, or would buy outright. Apply 177/13, Office of this Paper.

**D**EMOBILISED (Shortly).—Experienced Representative, age 33, good appearance and address, desires progressive position (when discharged home service); Drugs, Sundries, Packed Goods, Surgical appliances, etc.; previous journey Midlands, Eastern Counties; consider changing ground. "Energetic" (178/26), Office of this Paper.

### DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.  
3 and 4 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.  
1 ounce. 1½ ounce.

BLUE LOTION BOTTLES, all sizes.

**CORKS.** Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.  
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

**I. ISAACS & CO.,** Glass Bottle Manufacturers,  
106 Midland Road, St. Pancras, London, N.W. 1,  
or ISLINGTON BOTTLE COMPANY,  
7 New Inn Yard, Tottenham Court Road, London, W. 1.

Orders sent to either establishment have attention.

Established 100 Years.

Bankers: London County and Westminster Bank, Bloomsbury Branch.

## WATSON'S OF SHEFFIELD

Want high-class cameras with fine lenses, artificial light enlargers, and vest pocket cameras of all kinds.  
At least 2/3rds retail given for approved models.  
In some instances more.

Is it not better to sell now than to wait till the slump comes? Any cameras on your shelves, and any unsaleable photographic sundries are valuable to us.

Why not sell them now?

You will never have the same chance again.

Ask your nearest chemist friend whether he was satisfied with our prices and business methods.

Cash immediately.

Goods returned carriage paid if no business.

**Watsons'—The Camera House.**

Tel. No. 255 or 27.

New address, 19 Change Alley, Sheffield.

## PAPER

100 Reams strong Brown Tissue, 18×28 in., 16/6 per ream. Cash with Order. 10 reams Carriage Paid. Also Browns and Krafts in stock.

**D. W. BULL, 4 CHURCHILL ROAD, HOMERTON, E. 9.**

## 4 Jay Mack's Ledger ONE 10/6 YEARS SIZE ONLY.

On appro. Send cheque. 1/- Post Booking Fee, if returned.

**MACK-IVOR,  
HIGHTOWN P.O.  
CREWE.**

**Ayrtons, Evans,  
Bleasdale,  
Raimes**

**Australia:  
C.D.A.**

### EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

### FOR DISPOSAL.

#### MISCELLANEOUS.

3 Warner's Cure, 10s. 6d.; Pantauberge's Solution, 4s.; 2 "Homax." What offers? 40 lb. Cera Flav., good colour, 2s. 1b.; 1½ cwt. Paraffin Wax, 10d. 1b. Reidy, Chemist, Cahirciveen, Ireland.

#### WANTED.

**APENTA** or Hunyada Water. State quantity and price to E. H. K., 33 Farnival Street, E.C. 4.

**SKILLITS** wanted for packing Herbs; also 1½ oz. Chip or Card-board Boxes; must be cheap. Samples and prices to Robinson, 83 Barkerend Road, Bradford.

**GUM** Guaiacum, large or small quantities, for spot cash; sample and price. Apply 177/39, Office of this Paper.

**PURE** Block Liqueur Juice, preferably in 5 kilo blocks. Samples, price, "S.", 46 Cumberland Road, Acton, W. 3.

**PILL-PICKING** or Grading Machines wanted; also Ovalling Machines for three-grain pill. De Witt, 44 Rathbone Place, W. 1.

**COLTON** Pill-making Plant in good condition. Apply 242/60, Office of this Paper.

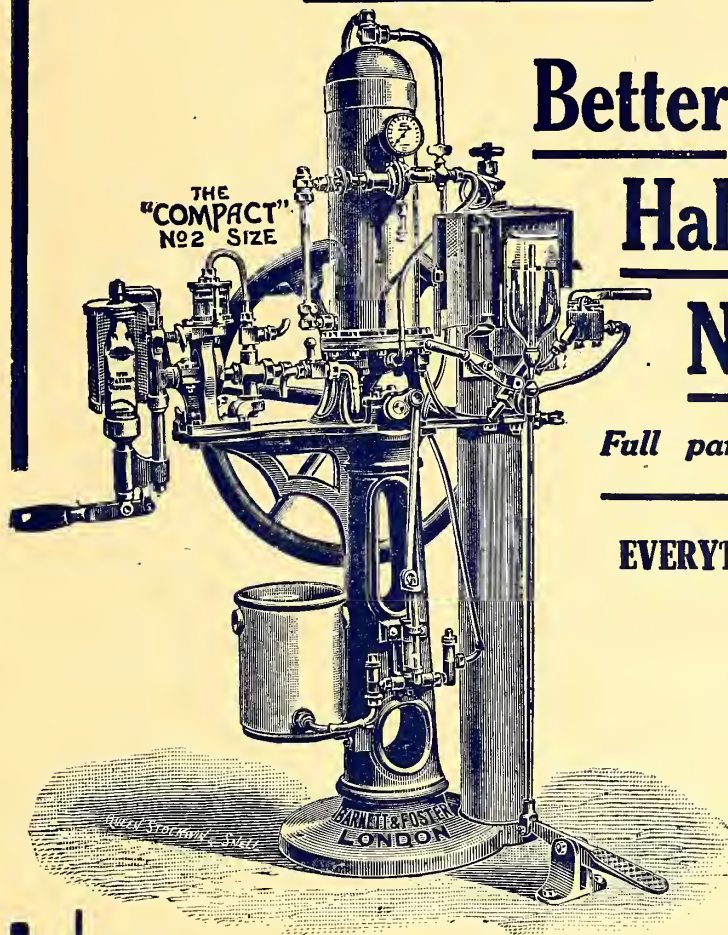
**OLD** Bell Metal Mortars, with inscriptions or early dates. Crawford, Chemist, Horley.

**WANTED,** Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

**OPTICAL** books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.



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